

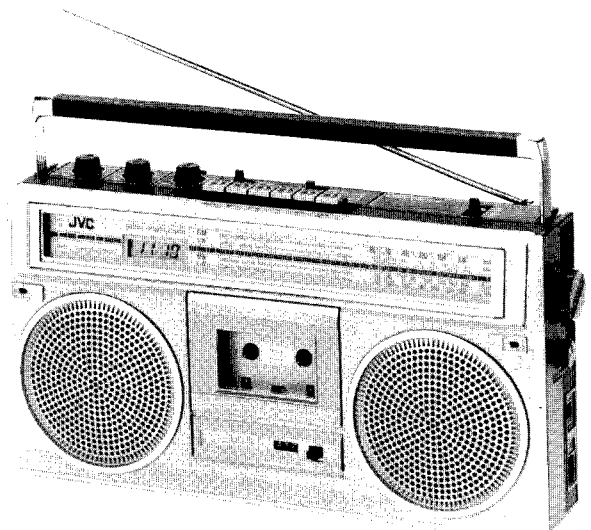
JVC

SERVICE MANUAL

MODEL

RC-555KL

FM-SW-MW-LW
4 BAND STEREO RADIO
CASSETTE RECORDER



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Specifications

Semiconductors : 7 ICs (including 2 for the microphone),
19 transistors (including 2 for the motor)

Speakers : 12 cm (3.2 Ω) x 2

Tuner section

Frequency ranges : FM 88 – 108 MHz
SW 6 – 18 MHz
MW 540 – 1600 kHz
LW 150 – 350 kHz

Antennas : Telescopic antenna for SW & FM
Ferrite core antenna for MW & LW

Tape recorder section

Tape : Philips type cassette
Track system : 4-track, 2-channel stereo
Frequency response: 60 – 10,000 Hz
Wow & flutter : 0.12 % (WRMS)
S/N ratio : 40 dB
Rewind time : Within 105 sec. (C-60 cassette)
Fast forward time : Within 105 sec. (C-60 cassette)

Amplifier section

Power output : Max. 6 W (3 W + 3 W) (DC)
4 W (2 W + 2 W) (DC) at 10% THD

Input jacks : Mic x 2 (1 mV, low impedance)

Output jacks : Ext. speaker x 2
(load impedance 3.2 ~ 8 Ω)
Headphones x 1 (load impedance 8 Ω)

Input/output jack : DIN jack

Power supply : DC 9 V (6 "R20 (= U2)" batteries)
Car battery (DC 9 V)
AC 240/220/110 V, 50/60 Hz

Power consumption: 12 W

Dimensions : 420(W) x 230(H) x 102(D) mm

Weight : 3.6 kg (without batteries)
4.1 kg (with batteries)

Design and specifications subject to change without notice.

Main Features

- One button recording mechanism
- Pause facility
- Auto-stop mechanism
- ALC (Automatic Level Control) mechanism
- 4 LED (Light Emitting Diode) indicators for easy checking of operation
- External speaker jacks
- Clock built-in

Names of Parts

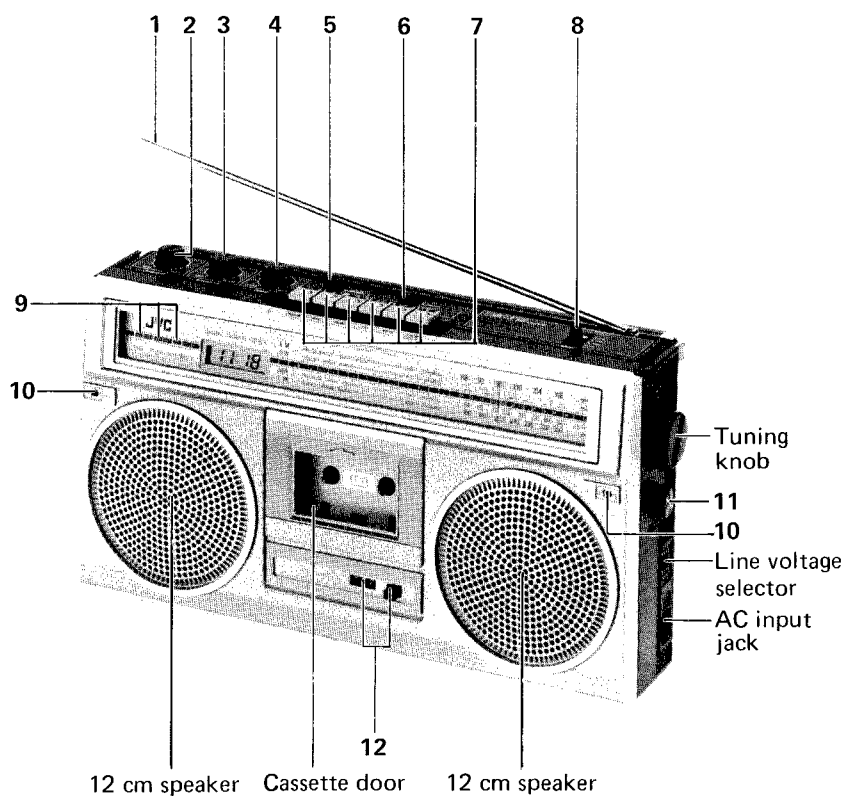


Fig. 1

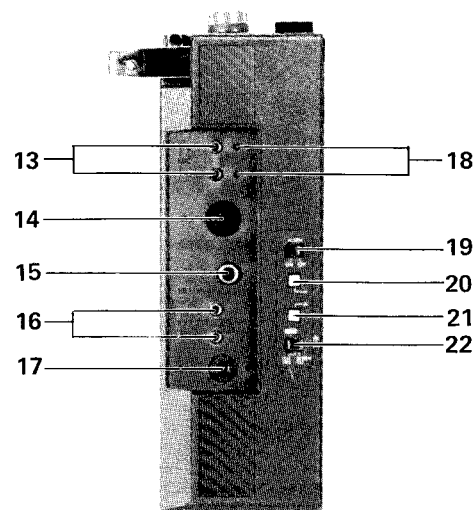


Fig. 2

- | | |
|--|--|
| <p>1. Telescopic antenna for the reception of FM and SW broadcasts.</p> <p>2. VOLUME control</p> <p>3. BALANCE control</p> <p>4. TONE control</p> <p>5. BEAT CUT/MODE switch SPEAKER REVERSE STEREO MONO</p> <p>6. FUNCTION switch DIN IN RADIO TAPE/RADIO STANDBY</p> <p>7. Cassette operation buttons PAUSE button Record button (REC) PLAY button FF button Rewind button (REW) STOP/EJECT button</p> | <p>8. BAND select switch (FM/SW/MW/LW)</p> <p>9. Indicators (LED's) BATT REC TUNE FM STEREO</p> <p>10. Built-in condenser microphones</p> <p>11. FINE TUNING knob</p> <p>12. Tape counter with reset button</p> <p>13. Microphone jacks (MIC)</p> <p>14. DIN jack (REC/PB)</p> <p>15. Stereo headphone jack (HEADPHONES)</p> <p>16. External speaker jacks (EXT SPEAKER 3.2~8Ω)</p> <p>17. External DC power jack (DC 9 V)</p> <p>18. Dummy holes</p> <p>19. Alarm ON/OFF switch</p> <p>20. Hour adj. button</p> <p>21. Minute adj. button</p> <p>22. Alarm time adj. switch</p> |
|--|--|

Main Parts Location

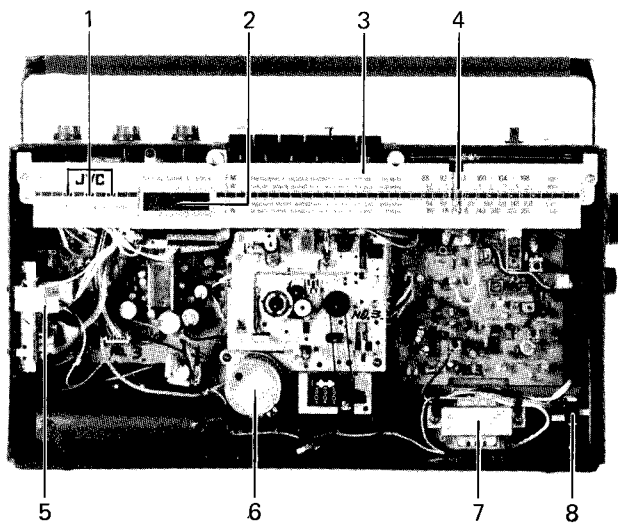


Fig. 3

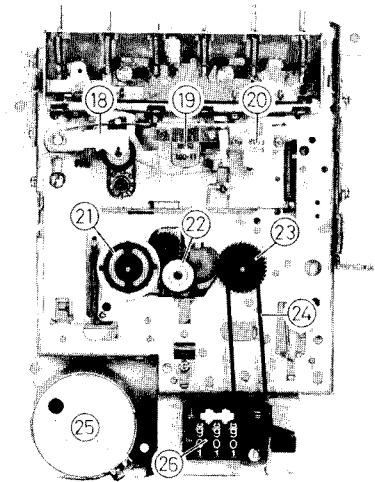


Fig. 5

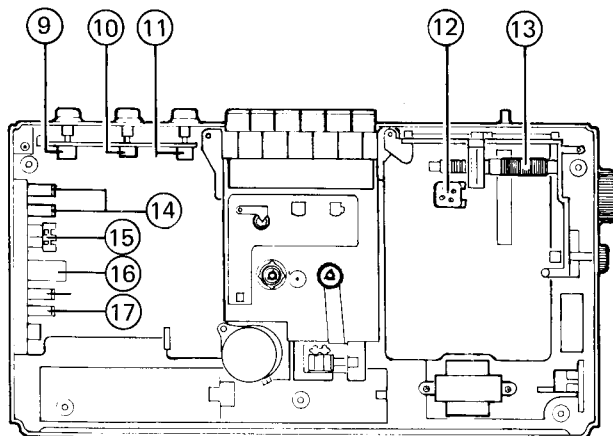


Fig. 4

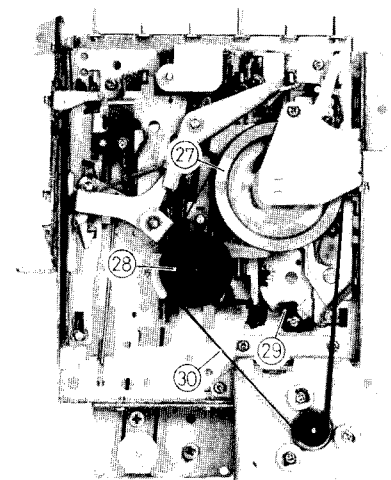


Fig. 6

- | | |
|------------------------------|------------------------|
| 1. LED indicators | 16. Headphone jack |
| 2. Digital quartz clock | 17. Ext. speaker jacks |
| 3. Dial scale | 18. Pinch roller ass'y |
| 4. Needle | 19. REC/PB head |
| 5. D. quartz clock circuit | 20. Erase head |
| 6. Motor | 21. Take-up reel ass'y |
| 7. Power transformer | 22. Take-up roller |
| 8. Power supply P.W.B. ass'y | 23. Supply reel ass'y |
| 9. VR of volume | 24. Counter belt |
| 10. VR of balance | 25. Motor ass'y |
| 11. VR of tone | 26. Tape counter |
| 12. Variable capacitor | 27. Flywheel ass'y |
| 13. Bar antenna | 28. RF clutch ass'y |
| 14. Microphone jacks | 29. Leaf switch |
| 15. DIN jack | 30. Main belt |

How to Remove the Respective Sections

(Remove in the order of the numbers.)

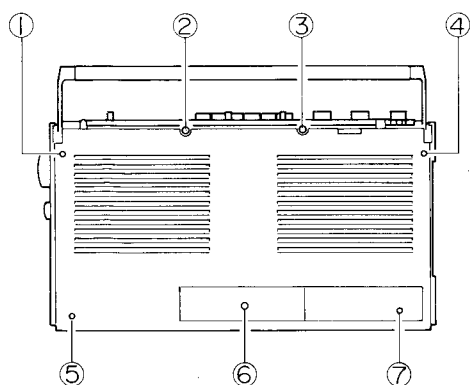


Fig. 7

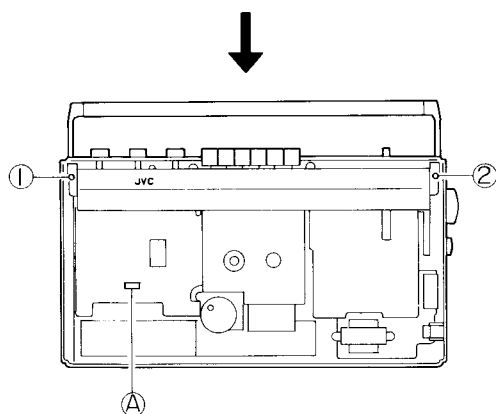


Fig. 8

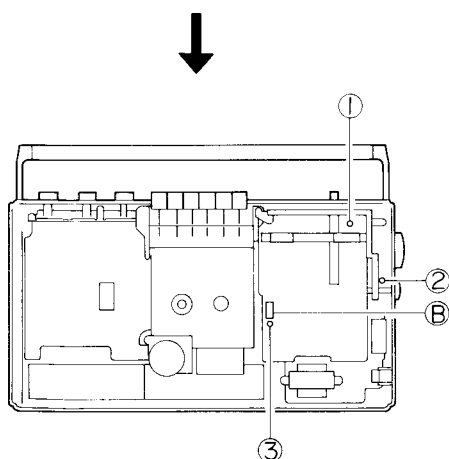


Fig. 9

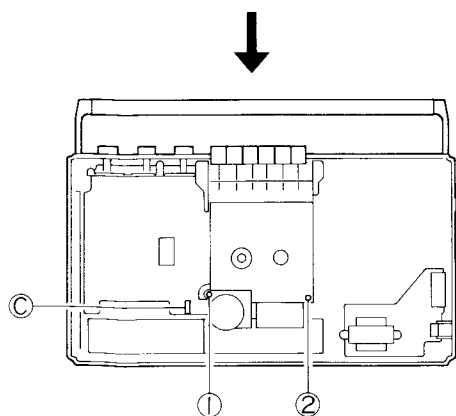


Fig. 10

1. Front cover (Fig. 7)

- Remove the battery cover.
- Remove 7 screws (① ~ ⑦) fastening the front cover.
- Open the cassette door.
- Remove the front cover, and then disconnect 4-pin connector and 3-pin connector.
- Disconnect the earth wire (black) of the tuner P.W.B. assembly.

2. Dial scale (Fig. 8)

- Remove 2 screws (①, ②) fastening the dial scale.
- Remove pulling out the needle to front side.

Note: When assembling the dial scale, do not use more longer 12 mm screws.

3. Tuner P.W.B. assembly (Fig. 9)

- Pull out the tuning knob.
- Remove 3 screws (① ~ ③) fastening the tuner P.W.B. assembly.
- Disconnect the 6-pin connector. (⑥)

4. Cassette mechanism section (Fig. 10)

- Remove 2 screws. (①, ②)
- Disconnect 4-pin connector ③ and remove the cassette section to right side.

5. Amplifier circuit board assembly (Fig. 11)

- Remove the sound volume, balance and tone knobs.
- Remove 7 screws (① ~ ⑦) fastening the Amp. circuit board assembly.
- Disconnect 6-pin connector. (④), (Fig 8)
- Disconnect 3-pin connector. (⑤)
- Remove a screw fastening the bracket for pin jacks terminal.

6. Clock and its buzzer P.W.B. assembly

(Refer to page 30.)

- 1) Remove 2 screws fastening the clock P.W.B. to the dial scale assembly (rear side).
- 2) Remove 2 screws fastening the bracket of the clock circuit to the cabinet (right side).
- 3) Disconnect 3-pin connector.

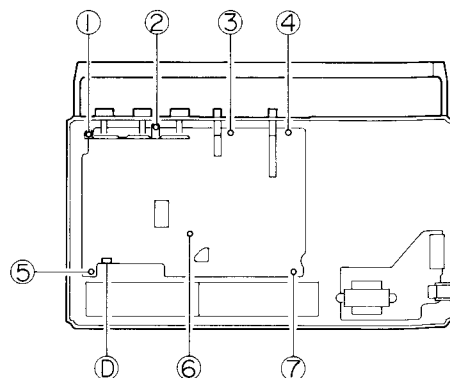


Fig. 11

How to Remove the Respective Cassette Mechanism Component

(Refer to mechanical component on page 16.)

1. **Pinch roller (70)**
 - Remove the spring (71).
 - Remove the E-ring (7).
2. **REC/PB head (57)**
 - Remove 2 screws (60), (61).
 - Remove the solenoid head circuit board.
3. **Erase head (62)**
 - Remove 2 screws (63).
4. **Reel assembly (73), (74)**
 - Insert the special tool for reel removing to reel 3 groove, and then pull out the reel.
5. **Take-up roller (18)**
 - Push the FF button.
 - Remove the washer (19).
 - If you broke the washer, you can use E-ring (REE1200).
6. **RF clutch assembly (27)**
 - Remove the main belt (35).
 - Pull out the pulley (it is pressed).
7. **Main belt (35)**
 - To flywheel bracket (36) remove a screw (26).

8. Flywheel assembly (33)

Do the same manner as for the main belt.
(When assembling it, be careful not to forget the nylon washer for capstan.)

9. Reef switch (47)

- Remove the screw (48).

10. Motor assembly (50)

- Remove 3 screws (100).

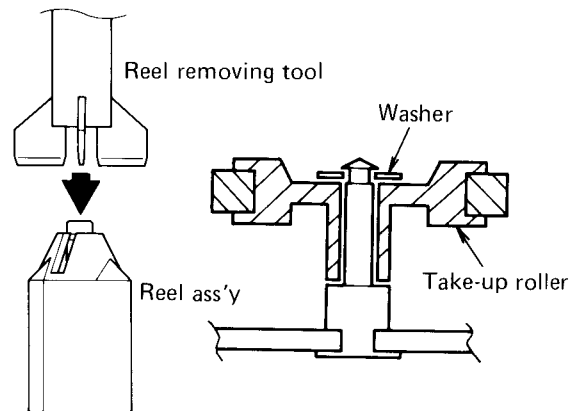


Fig. 12

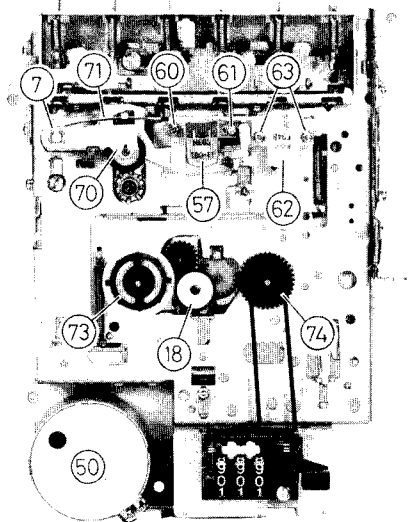


Fig. 13

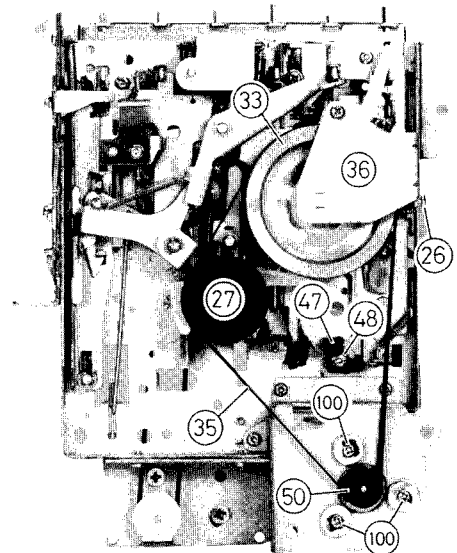


Fig. 14

Adjustment of Cassette Recorder

If the following adjustments are performed by ear or eye in a simple manner, be sure to perform them again later.

■ Head replacement and angle adjustment

1. Head replacement

- 1) To replace the record/playback head, remove two screws (A) and (B) shown in Fig. 15.
- 2) To replace the erase head, remove two screws (C) and (D) shown in Fig. 15.
- 3) When pressing the playback button, adjust these heads with the screws and the adjustment hole so that they are located as shown in Fig. 15.

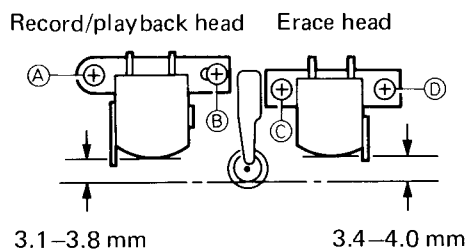


Fig. 15

2. Angle adjustment of Record/Playback head

- 1) Connect an oscilloscope to the speaker terminal. (A Lissajous waveform will appear.)
- 2) Play back the head angle adjusting tape (JVC test tape VTT-657).
- 3) Adjust the head angle by turning screw (B) shown in Fig. 15 so that the phase difference between the L and R outputs is 0° and the outputs are maximum.
- 4) After adjustment, be sure to paint-lock screw (B).
- 5) When adjusting the head angle using neither a voltmeter nor test tape, adjust it so that the output (esp. high band) from the speaker is maximum.

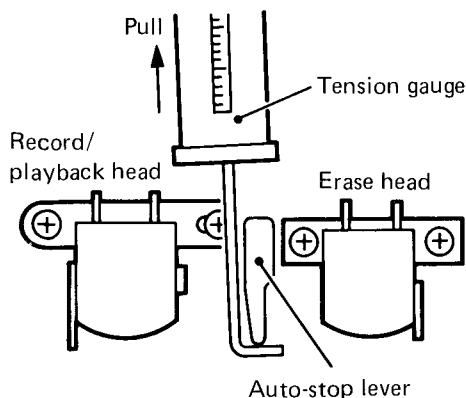


Fig. 16

■ Check of auto-stop detection pressure

- 1) Place the head mechanism with its motor side down, then set the recorder into the playback mode.
- 2) Hang a tension gauge on the detection cap tip as shown in Fig. 16, then confirm that when this gauge is slowly pulled, the auto-stop lever operates in the range of 50–70 g.

■ Flywheel thrust adjustment

Insert a clearance gauge into the clearance between the flywheel and the flywheel bracket, then adjust the thrust by turning the thrust screw shown in Fig. 17 to obtain a clearance of 0.1–0.3 mm wide.

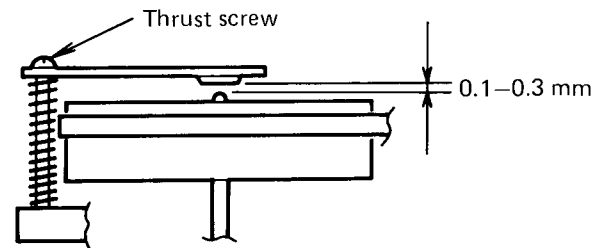


Fig. 17

■ Pause operation check

Operation and timing check

- 1) Confirm that when pressing the PAUSE button in the playback mode, the tape stops running, while when re-pressing, the recorder returns to the playback mode without any abnormality.
- 2) Confirm that when slowly pressing the PAUSE button, the pinch roller separates from the capstan to stop rotating earlier than the reel disk which in turn stops rotating. (Although they may stop almost at the same time, this means no abnormality.)

Note: For positive checking, it is advisable to use a cassette tape with a small number of turns such as C-30, etc.

■ Adjustment of pinch roller contact force

- 1) Position the mechanism shown in Fig. 13 with the motor side down, enter the recorder into the playback mode, and hang a tension gauge on the protrusion part of the pinch roller arm shown in Fig. 13. Next, confirm that when slowly pulling the tension gauge, the pinch roller stops rotating in the range of 450–550 g.

- 2) If the pinch roller does not stop in this range, replace the contact spring or adjust the contact force by bending this spring.

Note: Overly strong contact force may cause noise in the pinch roller bearing part, wow & flutter, or similar adverse effects. Conversely, too little contact force may cause auto-stop function failure, wow & flutter, or similar adverse effects.

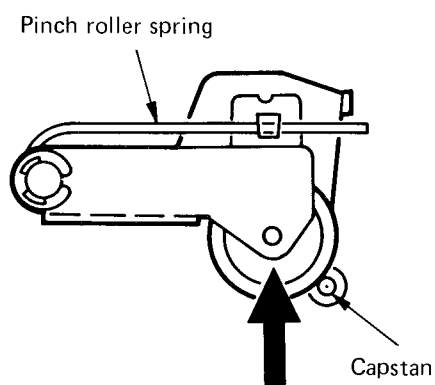


Fig. 18

■ Playback torque adjustment

- 1) Set a torque gauge to the take-up reel, then enter the recorder into the playback mode, and confirm that the playback torque is 45–70 g/cm.

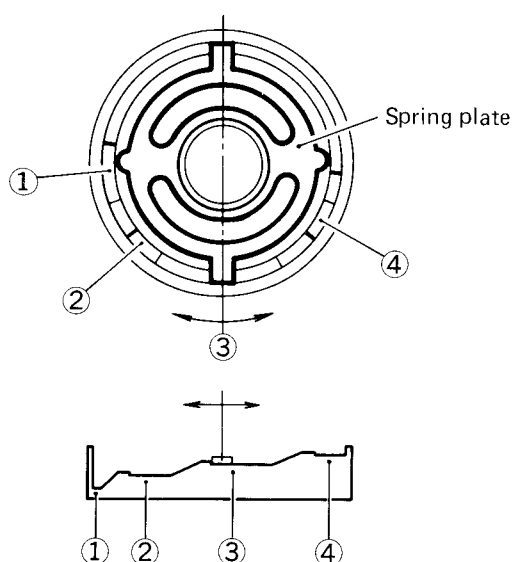


Fig. 19

- 2) When the playback torque is not in this range, check whether or not rubber and/or rotary members have dirt and/or oil on them. After that, if the torque is still low, lift up the spring plate shown in Fig. 19 to move it to position ③, while if the torque is high, move it to position ① in the same manner.

■ Fast forward/rewind torque adjustment

1. Fast forward torque adjustment (Fig. 20)

Set a torque gauge to the take-up reel, then enter the recorder into the playback mode, and confirm that the fast forward torque is 60–130 g/cm.

- 1) When a normal torque is not obtained because of the instability of the sliding mechanism within the R.F. clutch ass'y, lift up the spring plate inside the R.F. clutch ass'y and adjust the torque by moving it in the direction of ①.
- 2) When a normal torque is not obtained should the said sliding mechanism operate normally, adjust the torque by moving the said spring plate in the direction of ④ in the same manner as item 1).

2. Rewind torque adjustment (Fig. 20)

Set a torque gauge to the rewind reel, then enter the recorder into the rewind mode, and confirm that the rewind torque is 60–130 g/cm.

- 1) When a normal torque is not obtained because of the instability of the sliding mechanism within the R.F. clutch ass'y, lift up the spring plate inside the R.F. clutch ass'y and adjust the torque by moving it in the direction of ①.
- 2) When a normal torque is not obtained should the said sliding mechanism operate normally, adjust the torque by moving the said spring plate in the direction of ④ in the same manner as item 1) of this paragraph.

Note: When rubber members (belt, idler), the fringe of the flywheel, etc. have dirt on them, a normal torque may not appear, so clean them with alcohol, etc.

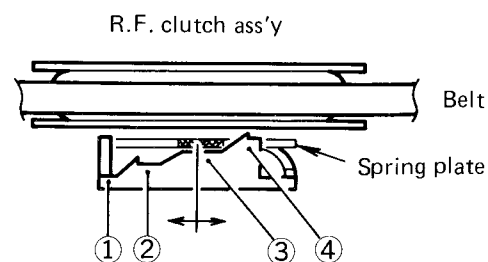


Fig. 20

How to Engage Dial Cord

1. Turn the dial drum fully counterclockwise (to the lowest frequency).
2. Use tetron cord (795 mm long and 0.5 mm in diameter) with applied micro wax.
3. Install the string in the sequence of the numbers.

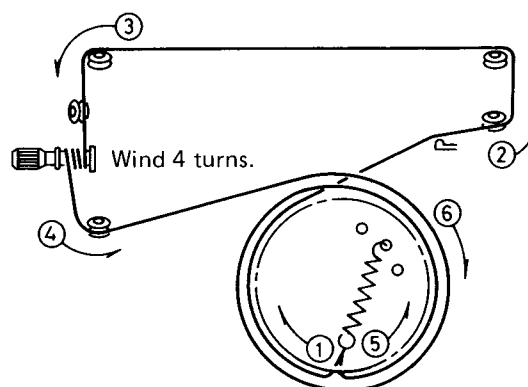
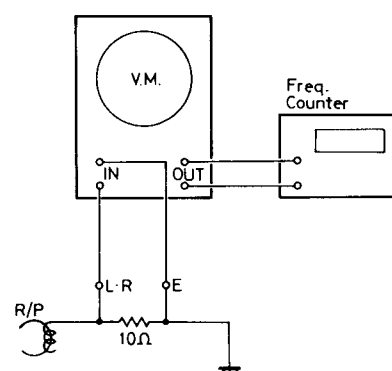
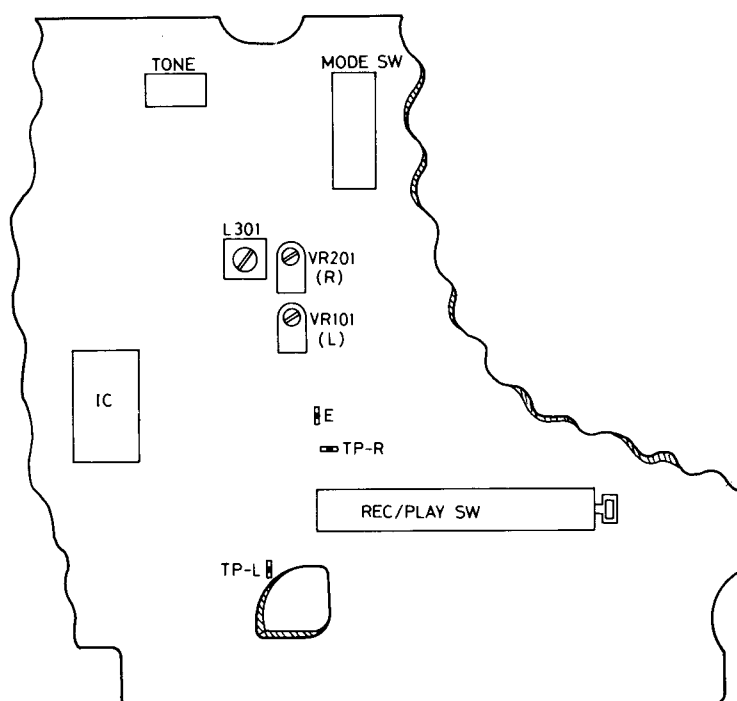


Fig. 21

Adjustment of Cassette Recorder Amplifier

■ Adjustments location



Tape speed adj. hole

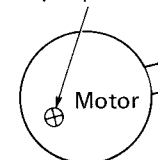


Fig. 22

Adjust in the following sequence.

1. Head azimuth

Connect an oscilloscope to the Ext. Spk. jacks. Using test tape VTT-657 (8 kHz, -15 dB), adjust so the phase difference between the L and R outputs is 0° and maximize the output level at the same time.

2. Bias frequency

Connect a frequency counter across TP-L and TP-R. Adjust L301 so that the counter reads 70.0 kHz. (Beat cut switch - STEREO) - Refer to Fig. 22.

3. Bias current

Connect an electronic voltmeter across TP-L and TP-R. Adjust VR101 and VR201 so that the voltmeter reads 4.2 mV/10 ohms (420 μ A).

4. Tape speed

Connect a frequency counter to the Ext. Spk. jacks. Playing back test tape VTT656 (3,000 Hz), adjust the semi-fixed resistor (VR701) in the motor so that the frequency counter reads 3,010 Hz.

Tuner Alignment

Output Measuring: Speaker terminal (Impedance = $3.2\ \Omega$), output level 50 mW (0.4 V/ $3.2\ \Omega$)

AM IF & RF Alignment

Input (SSG): Modulation 400 Hz, Modulated to 30%

| Step | Frequency Band | Input Signal | | Place to be aligned | Set the V. Capacitor to |
|------|----------------|--|-----------------------------------|---------------------|-------------------------|
| | | Frequency | Given to | | |
| 1 | MW (IF) | 455 kHz | Loop Antenna | T2, 4, 5 | Minimum |
| 2 | | Repeat the Step 1, and adjust for no further improvement. | | | |
| 3 | LW | 145 kHz | Loop Antenna | L8 | Maximum |
| 4 | | 360 kHz | | TC8 | Minimum |
| 5 | | Repeat the Steps 3 & 4. | | | |
| 6 | | 160 kHz | Loop Antenna | L5 | 160 kHz Signal |
| 7 | | 350 kHz | | TC5 | 350 kHz Signal |
| 8 | | Repeat the Steps 6 & 7, and adjust for no further improvement. | | | |
| 9 | MW | 520 kHz | Loop Antenna | L7 | Maximum |
| 10 | | 1650 kHz | | TC7 | Minimum |
| 11 | | Repeat the Steps 9 & 10. | | | |
| 12 | | 600 kHz | Loop Antenna | L4 | 600 kHz Signal |
| 13 | | 1400 kHz | | TC4 | 1400 kHz Signal |
| 14 | | Repeat the Steps 12 & 13, and adjust for no further improvement. | | | |
| 15 | SW | 5.8 MHz | Rod Antenna through Dummy Antenna | L6 | Maximum |
| 16 | | 18.6 MHz | | TC6 | Minimum |
| 17 | | Repeat the Steps 15 & 16. | | | |
| 18 | | 6.0 MHz | Rod Antenna through Dummy Antenna | L3 | 6.0 MHz Signal |
| 19 | | 18.0 MHz | | TC3 | 18.0 MHz Signal |
| 20 | | Repeat the Steps 18 & 19, and adjust for no further improvement. | | | |

FM IF & Discriminator Alignment

Input (Sweep Generator) : TP5 (hot)

Output (Oscilloscope) : IF TP9 (hot) & TP10
Discriminator TP9 (hot) & TP10

| Step | Mode | Place to be aligned | Waveform |
|------|---------------|---------------------|----------|
| 1 | IF | T1 | Fig. 23 |
| 2 | Discriminator | T3 | Fig. 24 |

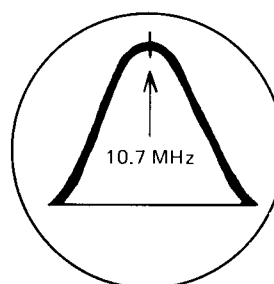


Fig. 23

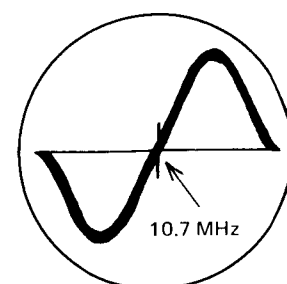


Fig. 24

FM RF Alignment

Input (SSG) : Use 75 Ω terminal, modulation 400 Hz modulated to 22.5 kHz deviation.
Connect Hot side to TP1 and Cold side to TP3.

| Step | Frequency Band | Input Signal | | Place to be aligned | Set the V. Capacitor to |
|------|----------------|--|-----------|---------------------|-------------------------|
| | | Frequency | Given to | | |
| 1 | FM | 87.5 MHz | TP1 & TP3 | L2 | Maximum |
| 2 | | 109 MHz | | TC2 | Minimum |
| 3 | | Repeat the Steps 1 & 2. | | | |
| 4 | | 90 MHz | TP1 & TP3 | L1 | 90 MHz Signal |
| 5 | | 106 MHz | | TC1 | 106 MHz Signal |
| 6 | | Repeat the Steps 4 & 5, and adjust for no further improvement. | | | |

FM MPX Alignment

A. 19 kHz Alignment (Regular Method)

1. Connect a frequency counter to the test point TP8.
2. Supply the monaural signal (98 MHz, 60 dB) across the test points TP1 and TP3.
3. Adjust the variable resistor VR1 so that the frequency becomes 19 kHz \pm 150 Hz.

B. 19 kHz Alignment (Simplified Method)

1. Tune to an FM stereo broadcast.
2. Set the variable resistor VR1 to the center position of the range in where the stereo indicator keeps lighting.

Parts Arrangement for Alignment

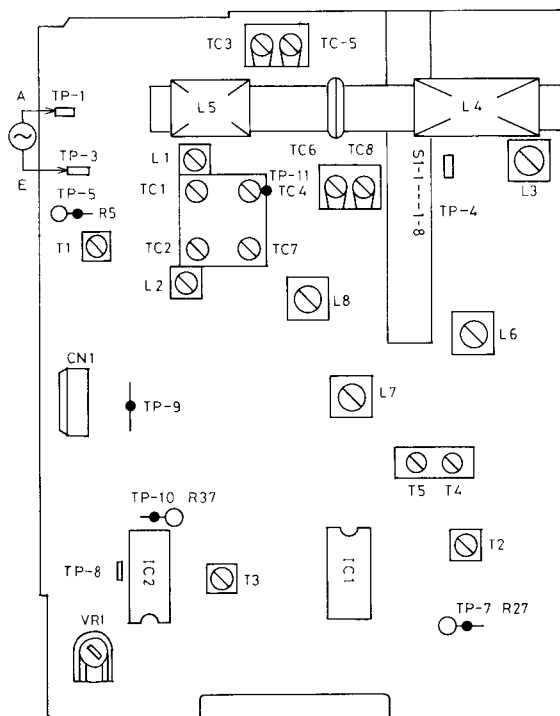
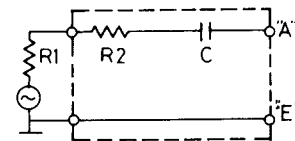


Fig. 25

Dummy Antenna



$$R1 + R2 = 80 \Omega$$

$$C = 10 \text{ pF}$$

R1: Output impedance of S.S.G.

Block Diagram

Tuner Circuit

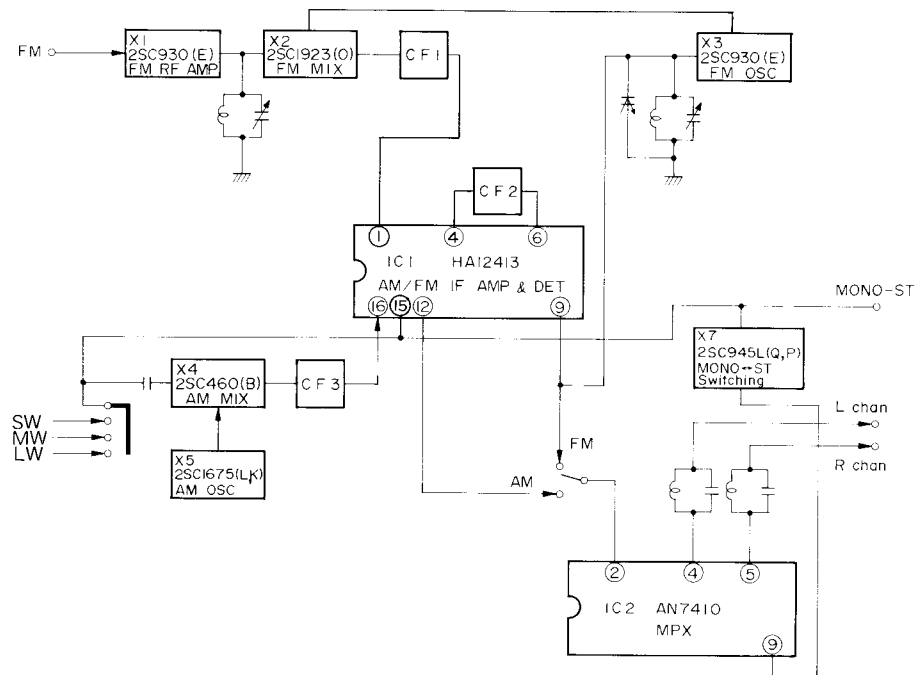


Fig. 26

Amplifier Circuit

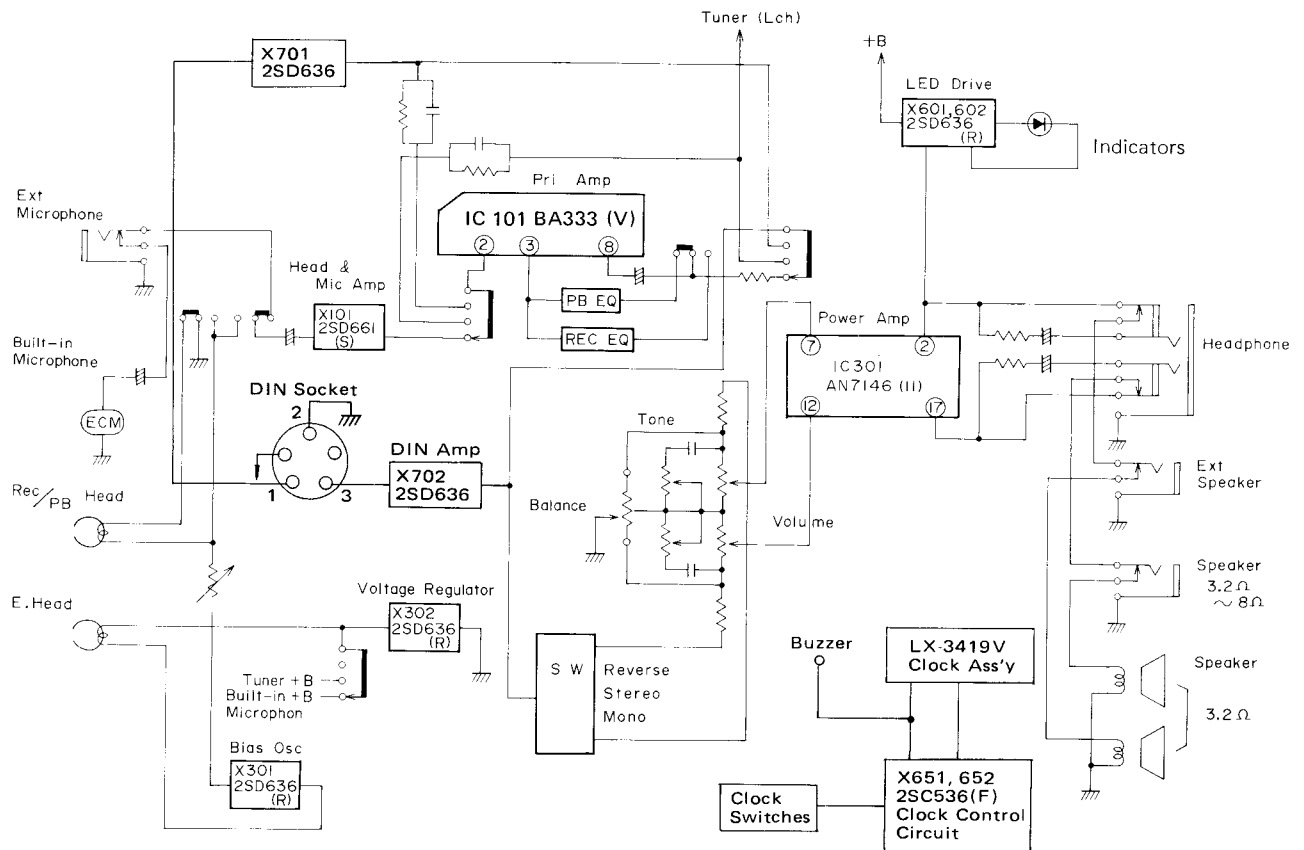


Fig. 27

Schematic Diagram of RC-555KL (Tuner Circuit)

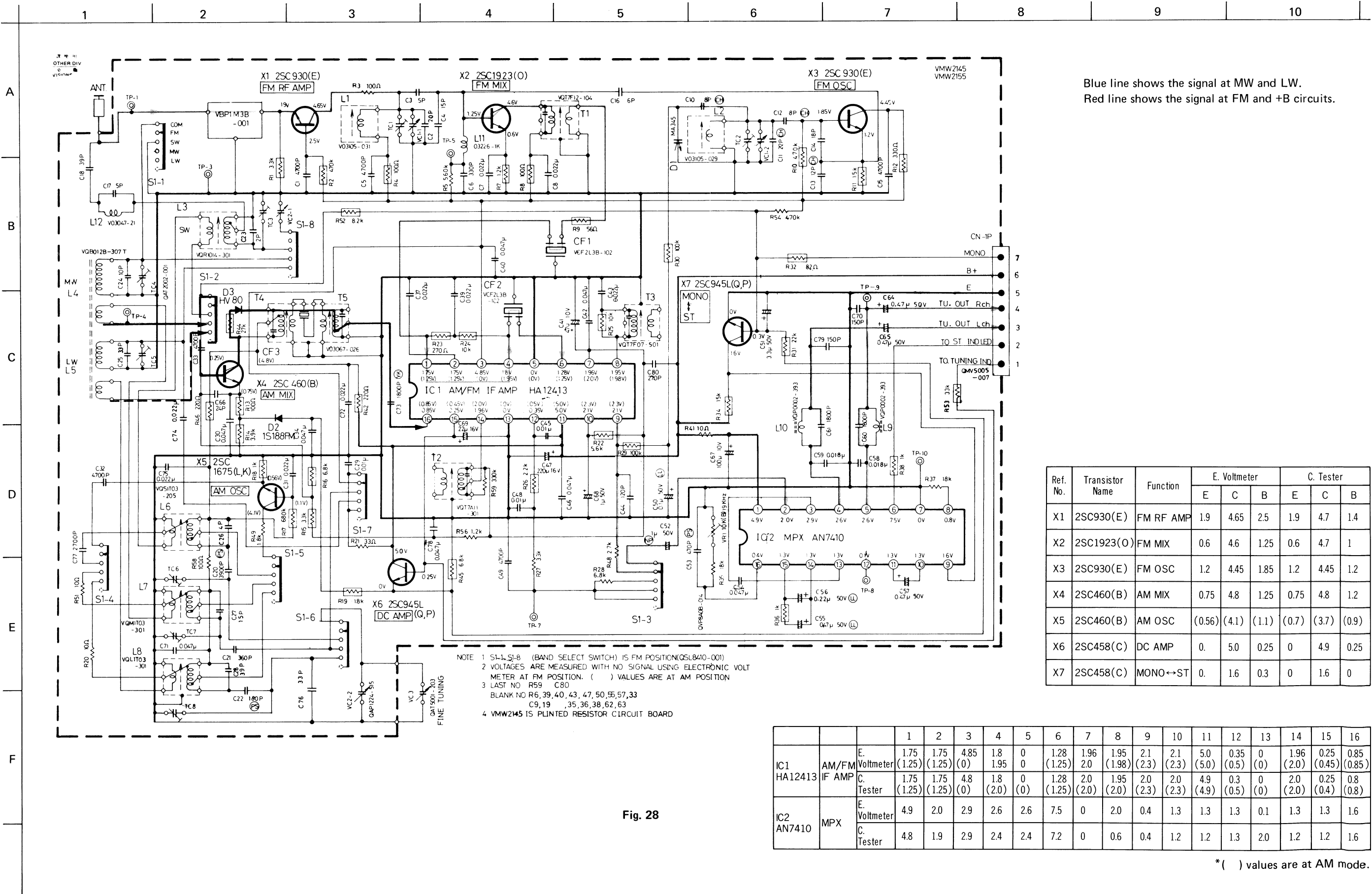


Fig. 28

Schematic Diagram of RC-555KL (Amplifier Circuit)

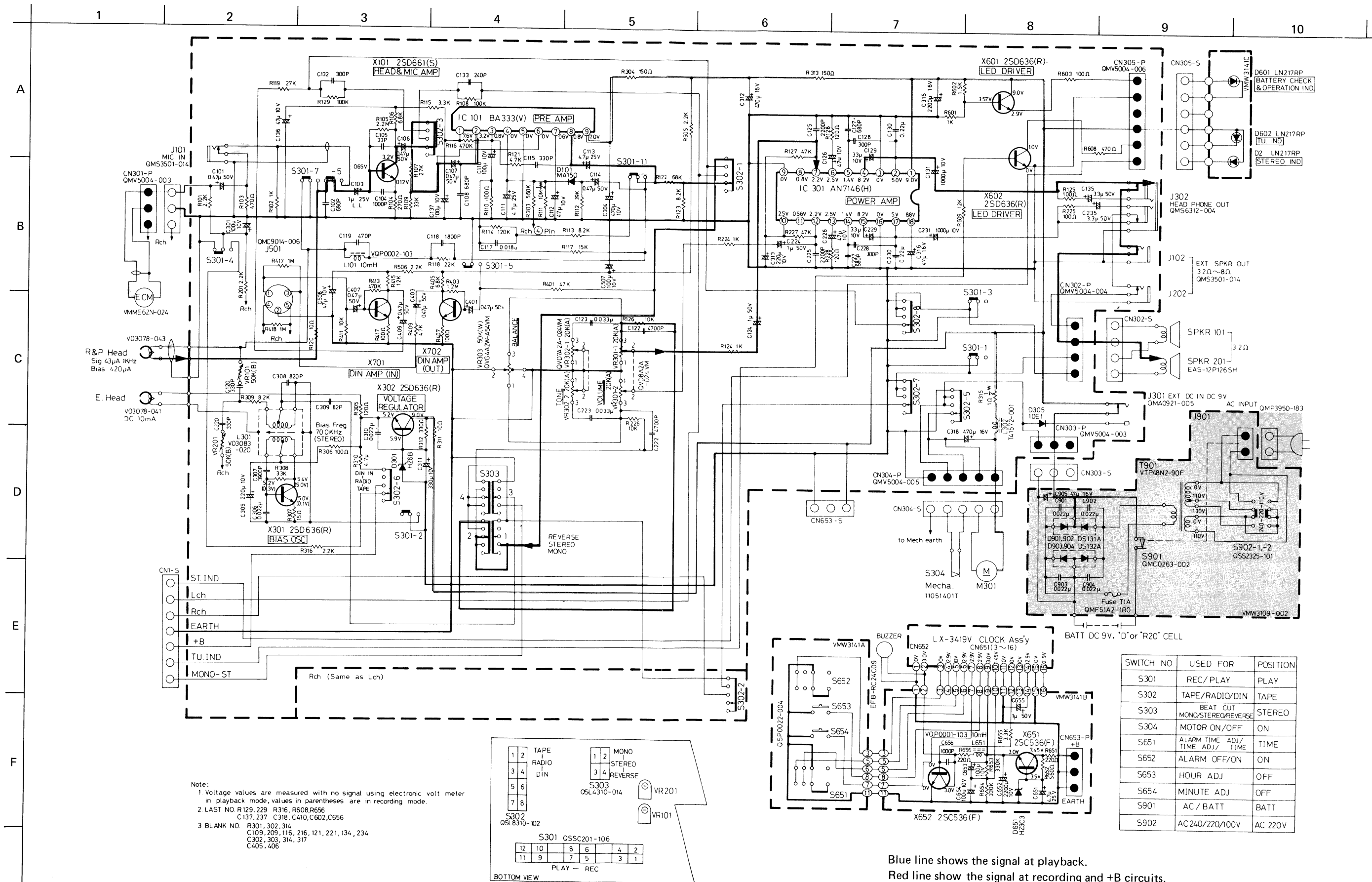


Fig. 29

Blue line shows the signal at playback.
Red line show the signal at recording and +B circuits.
() parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Wiring Connection

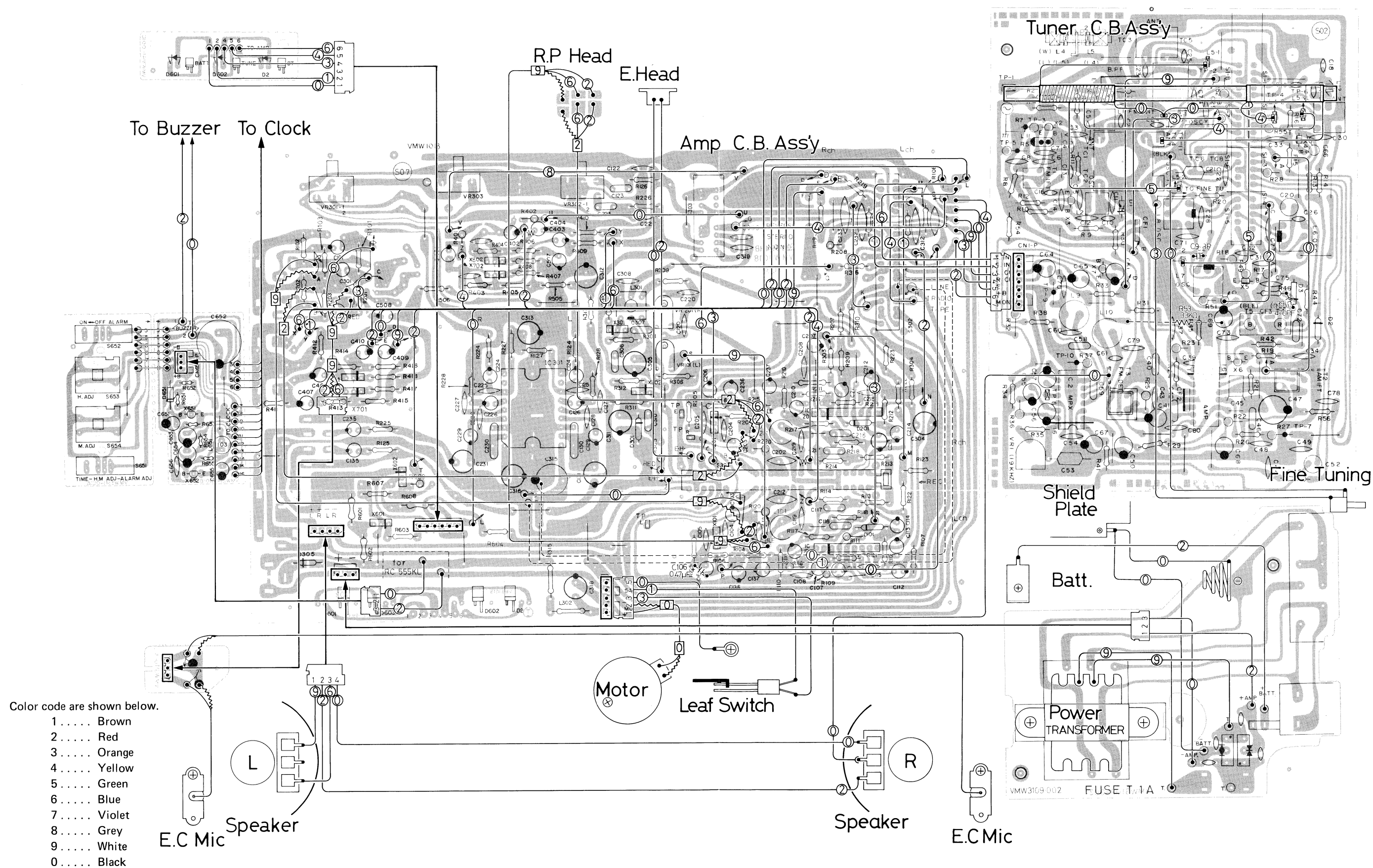


Fig. 30

Mechanical Component Parts

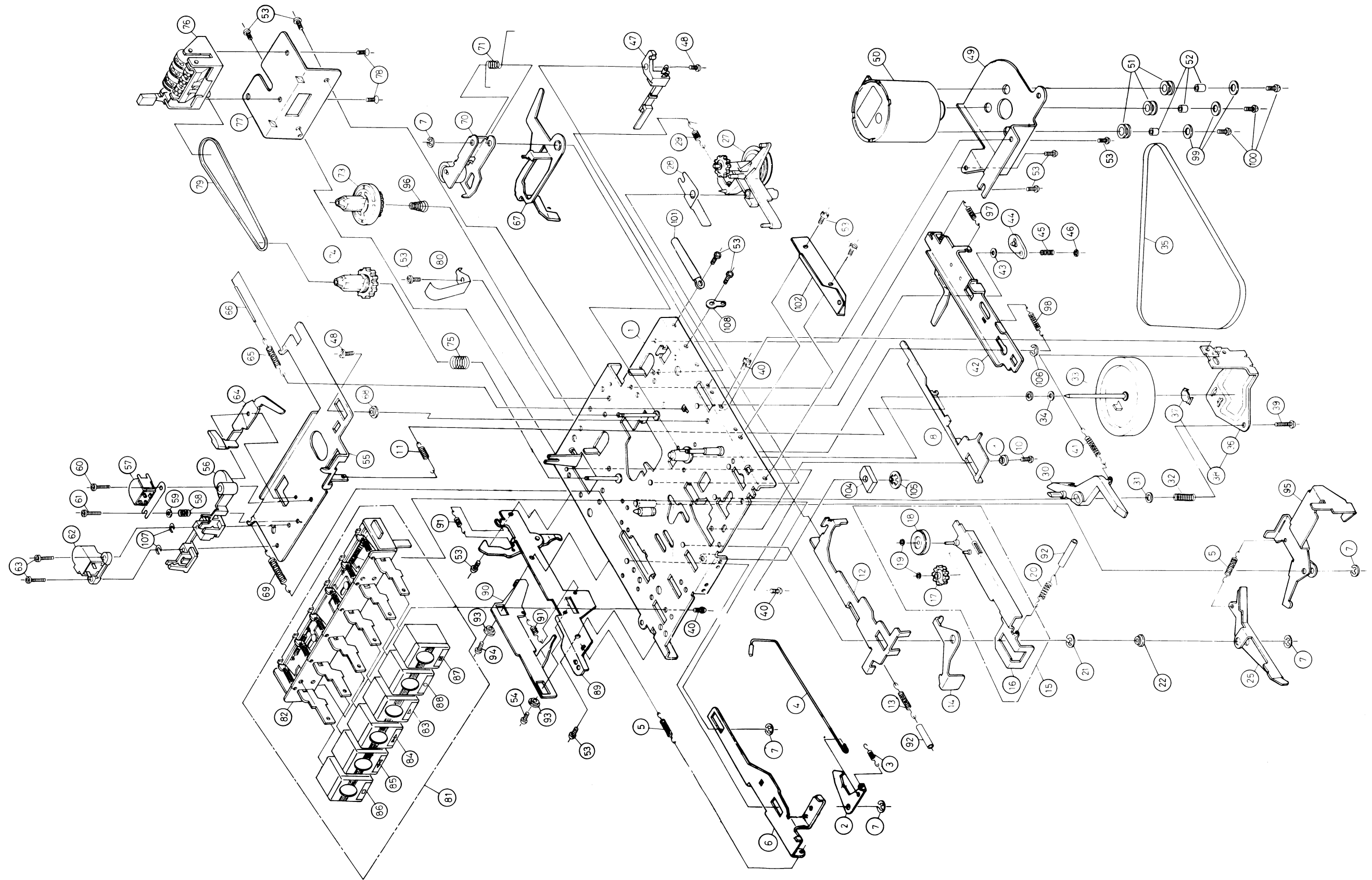
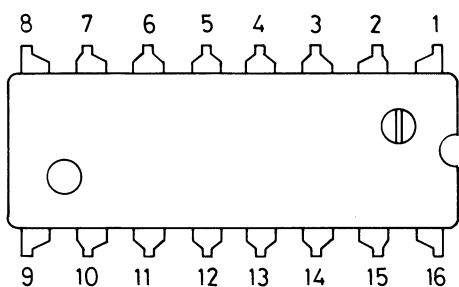


Fig. 31

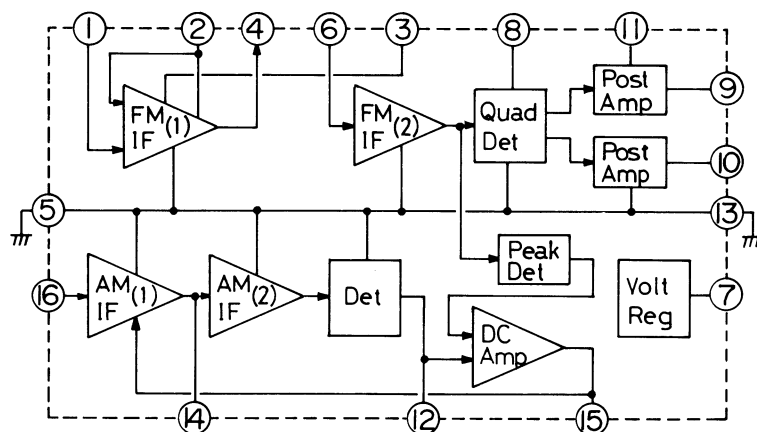
ICs

— HA12413 —

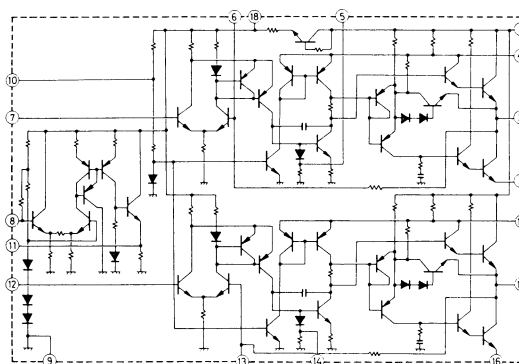
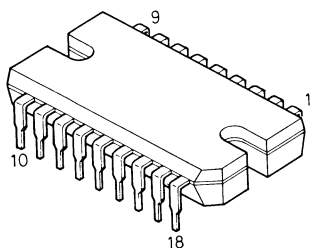
(Top View)



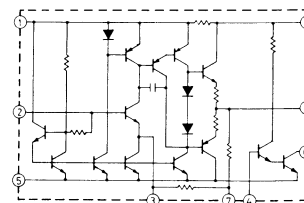
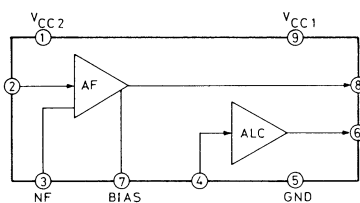
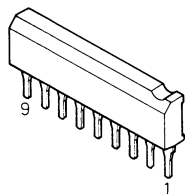
(Block Diagram)



— AN7146 —



— BA333 —



— AN7410 —

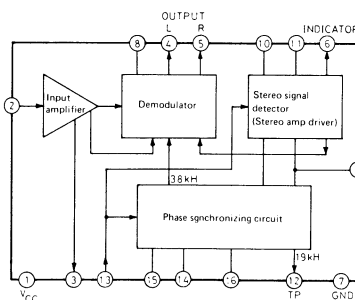
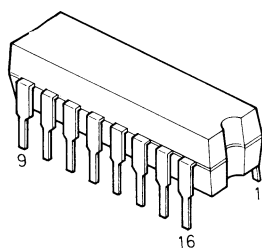


Fig. 32

Mechanical Component Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|-------------|--------------------------|---|------|
| 1 | 15840181ZT | Mecha. Chassis Ass'y | | 1 |
| 2 | 15790205T | Rec. Safety Lever | | 1 |
| 3 | 2980802T | Spring | | 1 |
| 4 | 13970202ZT | Rec. Safety Spoke Ass'y | | 1 |
| 5 | 150102T | Spring | Rec. Slide Lever x 1, Rec. Kick Lever x 1 | 2 |
| 6 | 15790201T | Rec. Slide Lever | | 1 |
| 7 | REE2500 | E Ring | for Rec. Slide Lever x 2, Rec. Kick Lever x 1, Rec. Lever x 1, Pinch Roller Spring x 1 | 5 |
| 8 | 13971002T | Play Slide Lever | | 1 |
| 9 | 090302T | Play Slide Lever Collar | | 1 |
| 10 | 10PZ26080T | Screw | | 1 |
| 11 | 13490301T | RC. Spring | | 1 |
| 12 | 12001001T | Main Plate | | 1 |
| 13 | 7380702T | Main Plate Spring | | 1 |
| 14 | 12001002T | Rewind Arm | | 1 |
| 15 | 12000891ZT | F.F. Idler Arm Ass'y | | 1 |
| 16 | 12000881ZT | F.F. Idler Arm Sub Ass'y | | 1 |
| 17 | 12000802BT | Idler Gear | | 1 |
| 18 | 12000804T | Take-up Roller | | 1 |
| 19 | 12001503T | Washer | | 2 |
| 20 | 6300403T | F.F. Idler Arm Spring | | 1 |
| 21 | REE4000 | E Ring | | 1 |
| 22 | 13332104T | Collar | | 1 |
| 23 | 13971005T | Guide Plate | | 1 |
| 24 | 16100604T | Polyslider Washer | ø 1.6 x ø 3.8 x t 0.3 | 1 |
| 25 | — | — | | — |
| 26 | — | — | Blank No. | — |
| 27 | 13970791ZT | RF. Clutch Ass'y | J24 | 1 |
| 28 | 12021001T | Rew. Spring Plate | | 1 |
| 29 | 12000709T | RF. Clutch Arm Spring | | 1 |
| 30 | 12001102T | Auto Stop Lever | J24 | 1 |
| 31 | WNS3000Z | Washer | ø 3.3 x ø 8 x t 0.5 | 1 |
| 32 | 14310901T | Thrust Spring | | 1 |
| 33 | 12000903T | Flywheel Ass'y | | 1 |
| 34 | 3280712T | Polyslider Washer | ø 2.1 x ø 4 x t 0.25 | 2 |
| 35 | 12000904T | Main Belt | | 1 |
| 36 | 12000901T | Flywheel Bracket | | 1 |
| 37 | 12000906T | Spacer | | 1 |
| 38 | 12000991ZT | Flywheel Bracket Ass'y | | 1 |
| 39 | SPSP2618Z | Screw | | 1 |
| 40 | 10PZ26050T | Screw | for Flywheel Bracket x 1, Push Button x 2 | 3 |
| 41 | 12001103T | Auto Stop Lever Spring | | 1 |
| 42 | 14071781ZT | Pause Slide Lever Ass'y | | 1 |
| 43 | 15101201T | Collar | | 1 |
| 44 | 12221702T | Pause Lever | | 1 |
| 45 | 13231701T | Pause Lever Spring | | 1 |
| 46 | 12601501T | Special Washer | ø 1.7 x ø 5 x ø 0.4 | 1 |
| 47 | MSW-0087NKT | Leaf Switch | | 1 |
| 48 | 23BZ26050T | Tap. Screw | | 1 |
| 49 | 15791201T | Motor Bracket | | 1 |
| 50 | 15791282ZT | Motor Ass'y | | 1 |
| 51 | F4641-001 | Rubber Cushion | | 3 |
| 52 | 14311202T | Collar | | 3 |
| 53 | 20PZ26040T | Tap. Screw | | 12 |
| 54 | 20PZ26060T | " | | 1 |
| 55 | 12600301T | Head Panel | | 1 |

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|--------------|------------------------------------|---|------|
| 56 | 12000302T | Head Block | J24 | 1 |
| 57 | V03078-043 | R/P Head | | 1 |
| 58 | 15600305T | R/P Head Spring | | 1 |
| 59 | WSS2000N | Washer | $\phi 2.3 \times \phi 4.3 \times t 0.4$ | 1 |
| 60 | 72PZ20110T | Cap. Screw | | 1 |
| 61 | SPSX2011R | PM. Screw | | 1 |
| 62 | V03078-041 | E. Head | | 1 |
| 63 | 72PU20120T | Cap. Screw | | 2 |
| 64 | 12001193ZT | Detect Plate Ass'y | | 1 |
| 65 | 14000303T | Head Panel Spring (L) | | 1 |
| 66 | — | Tube | $\phi 1.4 \times \phi 0.8 \times L24$ | 1 |
| 67 | 12221705T | Pause Arm Lever | | 1 |
| 68 | 4080411T | Head Panel Collar | | 1 |
| 69 | 12000303T | Head Panel Spring (R) | | 1 |
| 70 | 12600491ZT | Pinch Roller Ass'y | | 1 |
| 71 | 12600402T | Pinch Roller Spring | | 1 |
| 72 | — | — | Blank No. | — |
| 73 | 12000593ZT | Take-up Reel Ass'y | J24 | 1 |
| 74 | 13970692ZT | Supply Reel Ass'y | J24 | 1 |
| 75 | 12910601T | Spring | for Back Tension | 1 |
| 76 | VKC5103-001S | Tape Counter | H55 | 1 |
| 77 | 15841601T | Counter Bracket | | 1 |
| 78 | SSSP3005ZS | Screw | for Tape Counter | 2 |
| 79 | 1891003T | Counter Belt | | 1 |
| 80 | 6010101T | Pack Spring | | 1 |
| 81 | 15791495ZT | Push Button Switch Composite Ass'y | | 1 |
| 82 | 15791494ZT | Push Button Switch Ass'y | | 1 |
| 83 | VXP3050-007 | Push Button | for Play | 1 |
| 84 | VXP3050-003 | " | for FF | 1 |
| 85 | VXP3050-004 | " | for Rew. | 1 |
| 86 | VXP3050-005 | " | for Stop | 1 |
| 87 | VXP3050-001 | " | for Pause | 1 |
| 88 | VXP3050-006 | " | for Rec. | 1 |
| 89 | 15841381ZT | Eject Bracket Ass'y | | 1 |
| 90 | 15161302T | Eject Lever | | 1 |
| 91 | 581205T | Spring | | 2 |
| 92 | — | Tube | Vinyl $\phi 3.5 \times L18$ | 1 |
| 93 | 9071904T | Collar | | 2 |
| 94 | 20PZ26070T | Tap. Screw | Head Panel Collar x 1, Eject Lever x 1 | 2 |
| 95 | 15840201T | Rec. Kick Lever | | 1 |
| 96 | 14300501T | Spring | for Take-up Disk | 1 |
| 97 | 180311T | " | for Pause Arm | 1 |
| 98 | 180502BT | " | for Pause Slide Arm | 1 |
| 99 | 031512T | Washer | $\phi 2.6 \times \phi 8 \times t 0.8$ | 3 |
| 100 | SPSP2609Z | Screw | for Motor | 3 |
| 101 | 4660901T | Wire Clamp | | 1 |
| 102 | 15841602T | Side Bracket | | 1 |
| 103 | 150102T | Spring | Rec. Kick Lever | 1 |
| 104 | 15790103T | Rubber Sheet | | 1 |
| 105 | RDS3000F | CS Ring | | 1 |
| 106 | REE2000 | E Ring | | 1 |
| 107 | 13270412A | (U) Washer | for Head Adjust t 0.1 | 2 |
| " | 13270412B | " | for Head Adjust t 0.2 | 2 |
| " | 13270412C | " | for Head Adjust t 0.3 | 2 |
| 108 | 021501T | Terminal Lug | | 1 |

Cabinet Assembly Parts

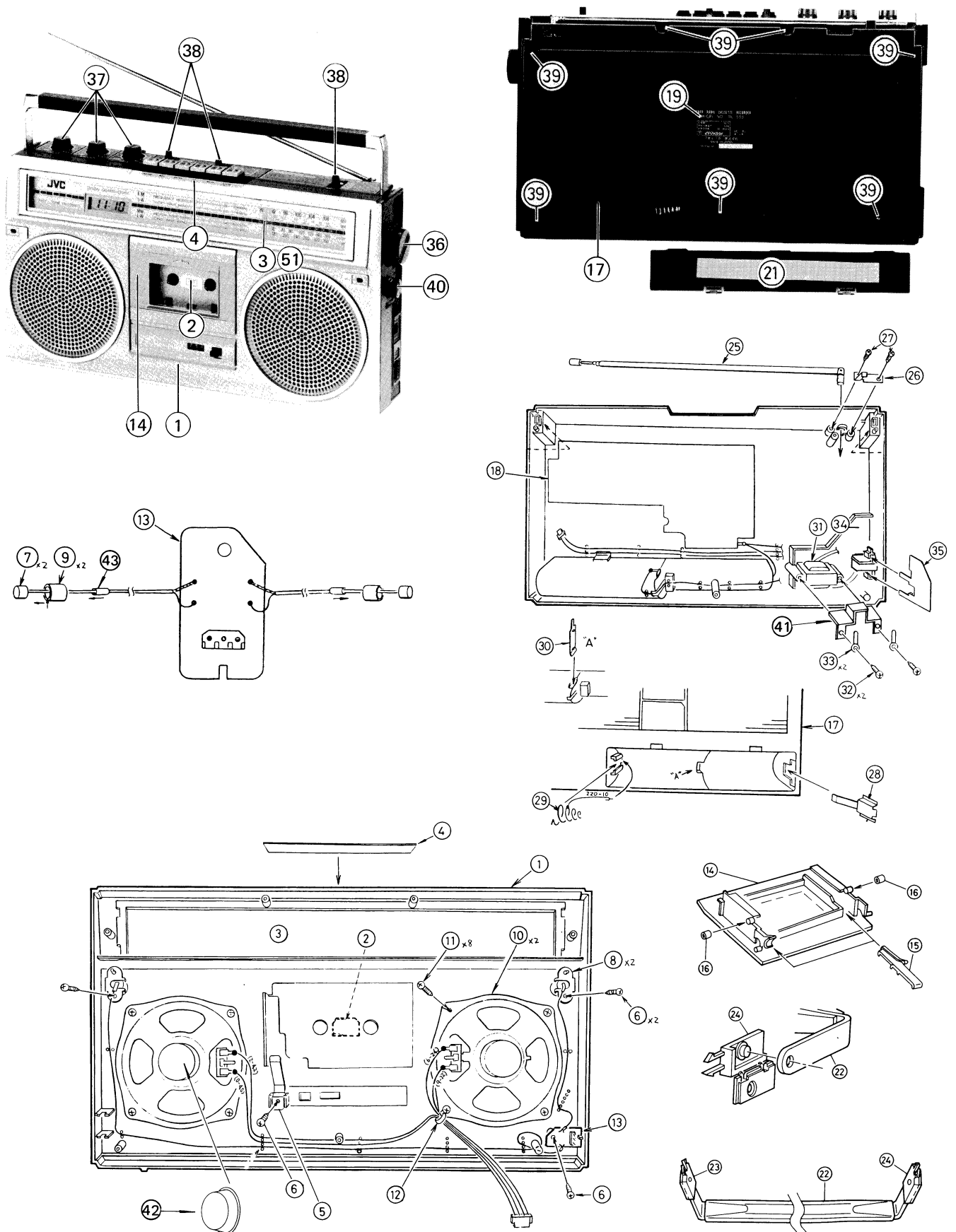


Fig. 33

Cabinet Assembly Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|---------------|---------------------|---|-------|
| (1-4) | ZCRC555KL-CBF | Front Cabinet | | 1 set |
| 1 | VJC1097-001 | Front Cabinet | | 1 |
| 2 | VJD4005-002 | Reflection Plate | | 1 |
| 3 | VJK3149-001 | Dial Lens | | 1 |
| 4 | VJD4358-002 | Mecha. Plate | | 1 |
| 5 | VKY4165-001 | Door Spring | | 1 |
| 6 | SBSF3010Z | Tap. Screw | Door Spring x 1, Mic. Bushing x 2, P.W.B. x 1 | 4 |
| 7 | VMM62N-024 | E. C. Mic. | | 2 |
| 8 | VYH4298-001 | Holder | | 2 |
| 9 | VYH4102-001 | Mic. Bushing | | 2 |
| 10 | EAS12P126SH | Speaker | SPKR101, SPKR201 | 2 |
| 11 | SBSF3008Z | Tap. Screw | | 8 |
| 12 | VKZ4001-007 | Wire Holder | | 1 |
| 13 | — | P. W. Board | Mic. Wire Terminal | 1 |
| 14 | VJT4027-00A | Cassette Door Ass'y | | 1 |
| 15 | V44910-002 | Cassette Spring | | 2 |
| 16 | VYH4275-001 | Rubber Ring | | 2 |
| (17-21) | ZCRC555KL-CBR | Rear Cabinet | | 1 |
| 17 | VJC1098-008 | Rear Cabinet | | 1 |
| 18 | VYH4474-00A | Shield Ass'y | | 1 |
| 19 | VYN5062-019C | Name Plate | JVC | 1 |
| 21 | ZCRC555-BCA | Battery Cover Ass'y | | 1 |
| 22 | VJH4011-00F | Handle Ass'y | | 1 |
| 23 | VYH4467-001 | Handle Supporter | (L) | 1 |
| 24 | VYH4468-001 | " | (R) | 1 |
| 25 | QZR4333-001 | Rod Antenna | | 1 |
| 26 | VYH4469-001 | Rod Antenna Holder | | 1 |
| 27 | SBSF3008Z | Tap. Screw | | 2 |
| 28 | VYH4010-003 | Battery Contact | | 1 |
| 29 | 53738-1 | Battery Spring | | 1 |
| 30 | VYH4104-002 | Contact | | 1 |
| 31 | VTP48N2-90F | Power Transformer | T901 | 1 |
| 32 | SBSF3014C | Tap. Screw | | 2 |
| 33 | VKZ4001-010 | Wire Holder | | 2 |
| 34 | VMW3109-002 | P. W. Board | Power Supply | 1 |
| 35 | VYH4470-001 | Plate | | 1 |
| 36 | VXL4106-002 | Tuning Knob | | 1 |
| 37 | VXL4107-002 | Knob | | 3 |
| 38 | VXQ4026-003 | Lever Cap | | 3 |
| 39 | SBSF3018R | Tap. Screw | for F. Cabinet + R. Cabinet | 7 |
| 40 | VXKM520-20012 | Fine Tuning Knob | | 1 |
| 42 | VYH4599-001 | Shield | | 1 |
| 43 | VYTH402-001 | Spacer | | 2 |
| 44 | VYSA1R8-049 | " | | 1 |
| 45 | VYSR105-004 | " | | 1 |
| 46 | VYSA1R4-056 | " | | 4 |
| 48 | VYSH106-020 | " | | 1 |
| 49 | VYSA1R6-009 | " | | 4 |
| 50 | VJD4501-001 | Plate | | 1 |
| 51 | VJK2133-001 | Dial Scale | | 1 |
| 52 | | Connector | CN651 | 1 |

Chassis Base Assembly Parts

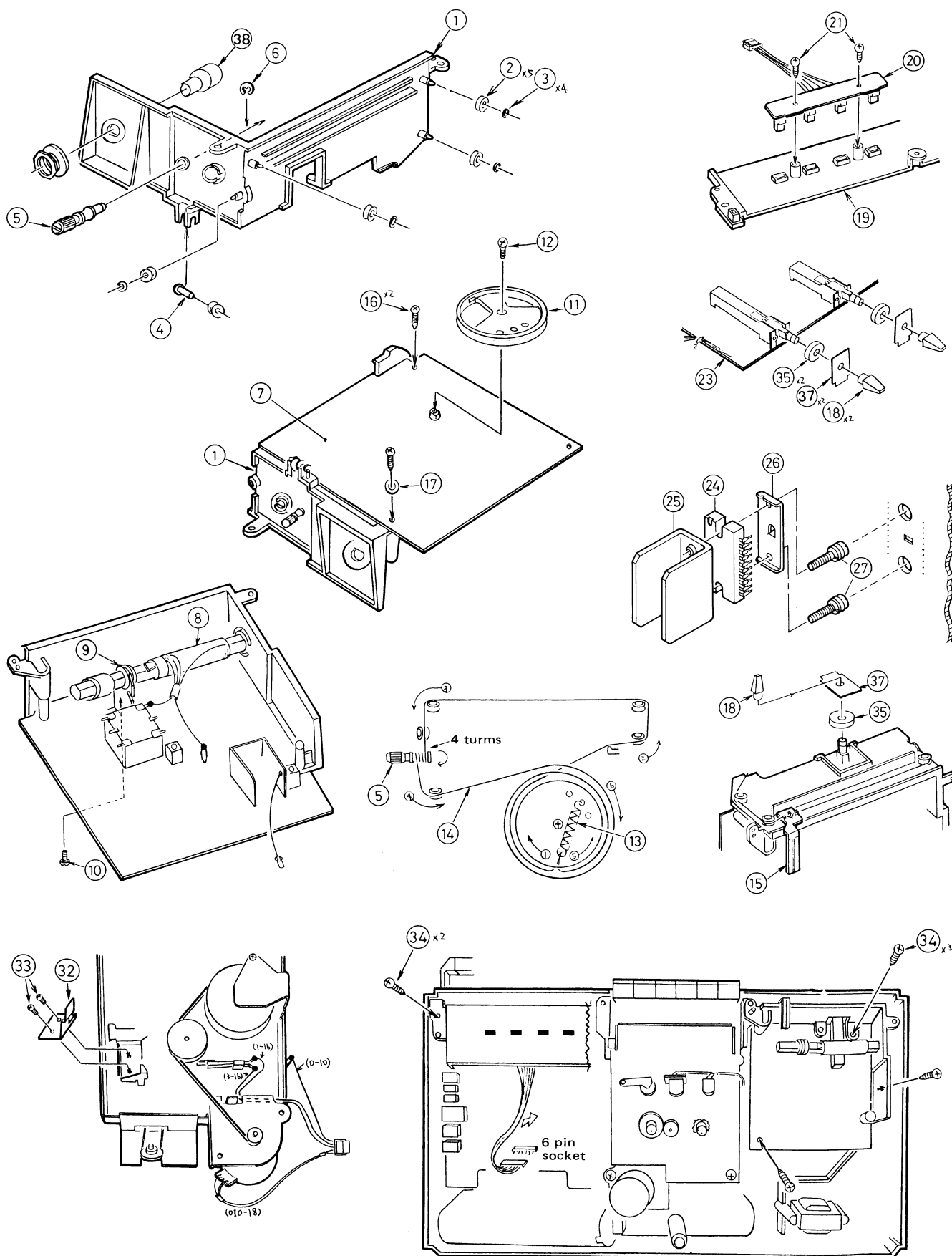


Fig. 34

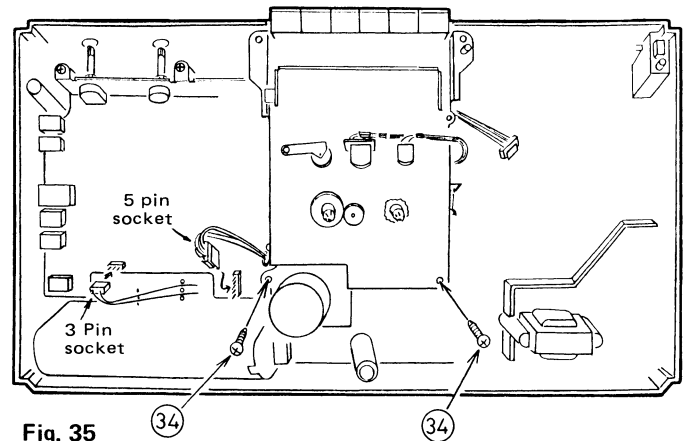
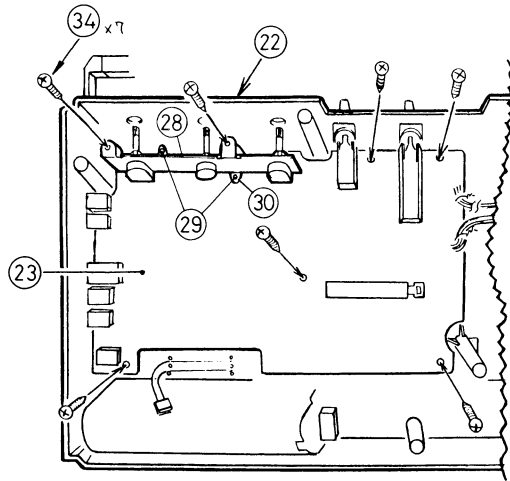


Fig. 35

Chassis Base Ass'y Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|---------------|--------------------|----------------------------------|-------|
| 1 | VYH2118-001 | Chassis Base | D36 | 1 |
| 2 | VYH4002-001 | Roller | | 5 |
| 3 | V42562-1 | Special Washer | | 4 |
| 4 | RTA4008 | Rivet | | 1 |
| 5 | VYH4009-004 | Tuning Shaft | | 1 |
| 6 | REE3000X | E Ring | | 1 |
| 7 | — | P. W. Board Ass'y | Tuner | 1 |
| 8 | VQB012B-307T | Bar Antenna Ass'y | L4, 5 | 1 |
| 9 | VYH4129-001 | Bar Antenna Holder | | 1 |
| 10 | SPSP3006ZS | Screw | | 1 |
| 11 | QZD1108-002 | Dial Drum | | 1 |
| 12 | SSSP2608Z | Screw | | 1 |
| 13 | 50153-3 | Spring | | 1 |
| 14 | VHR2TT9-05A | Dial Rope | Tetoron $\phi 0.5 \times 795$ mm | 1 set |
| 15 | VJN4045-001 | Needle | | 1 |
| 16 | SBSF3010Z | Screw | | 2 |
| 17 | Q03095-206 | Washer | | 1 |
| 18 | VXQ4026-003 | Lever Cap | | 1 |
| 19 | VJK2127-005 | Dial Scale | | 1 |
| 20 | — | P. W. Board | for LED (LN217RP = LED x 4) | 1 |
| 21 | SBSF3008Z | Tap. Screw | | 2 |
| 22 | ZCR555LB-CBR | Rear Cabinet Ass'y | | 1 set |
| 23 | — | P. W. Board Ass'y | Amplifier | 1 |
| 24 | AN7146(H) | IC | IC301 | 1 |
| 25 | VYH4295-002 | Radiation | | 1 |
| 26 | VYH4334-001 | E. Plate | | 1 |
| 27 | LPSP3012ZS | Screw | | 2 |
| 28 | VYH4471-001 | Volume Bracket | | 1 |
| 29 | SPSP3006Z | Screw | | 2 |
| 30 | WBS3000N | T. Lock Washer | | 1 |
| 32 | VKY4176-001 | Rec. Spring | | 1 |
| 33 | SPSP2604Z | Screw | | 2 |
| 34 | SBSF3012C | Tap. Screw | for R. Cabinet + Dial Scale | 14 |
| 35 | VYSH210-003 | Spacer | | 3 |
| 37 | VYTA452-001 | " | | 3 |
| 38 | VXKM520-20012 | Fine Tuning Knob | | 1 |
| 39 | QCS11HJ-151 | C. Capacitor | C701 (150 pF 50 V) | 1 |
| 40 | VYSH208-002 | Spacer | | 1 |
| 41 | VYSH102-022 | " | | 1 |
| 42 | VYSA1R6-021 | " | | 1 |

Tuner P.W. Board Parts

Tuner

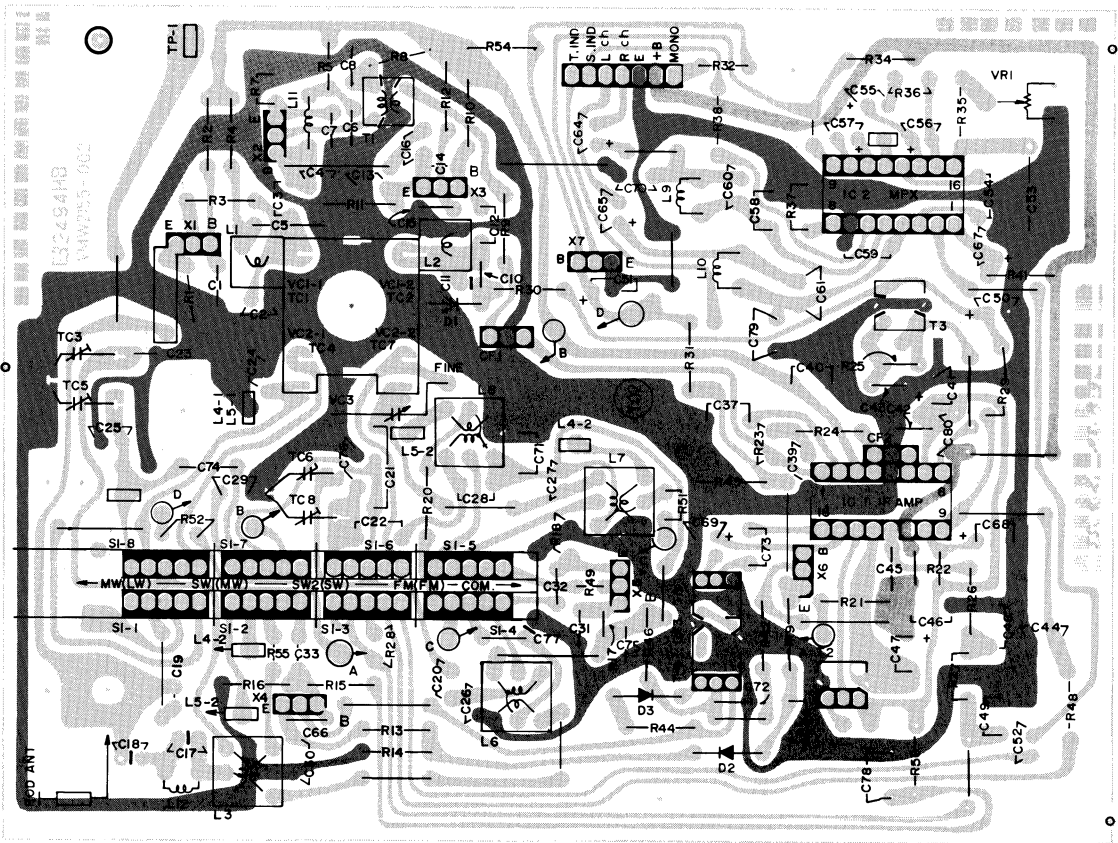


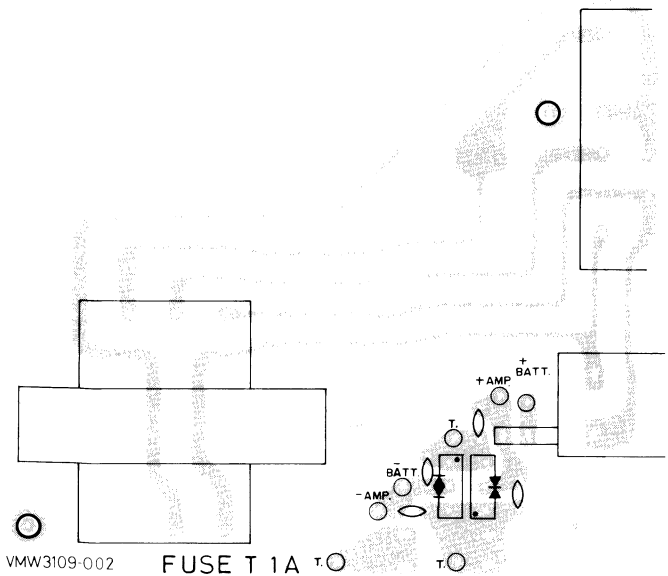
Fig. 36

Positive line

Common line

Power Supply

Mic Wire Terminal



LED indicators Clock circuit Clock switches

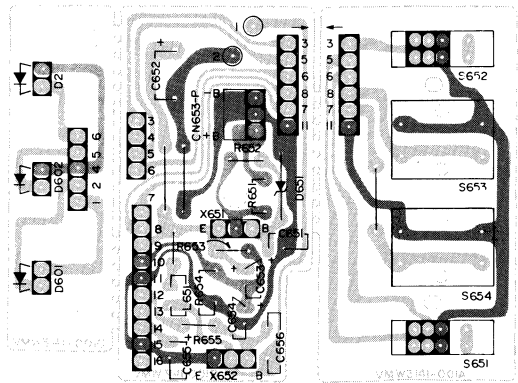


Fig. 37

Tuner P.W. Board Parts List

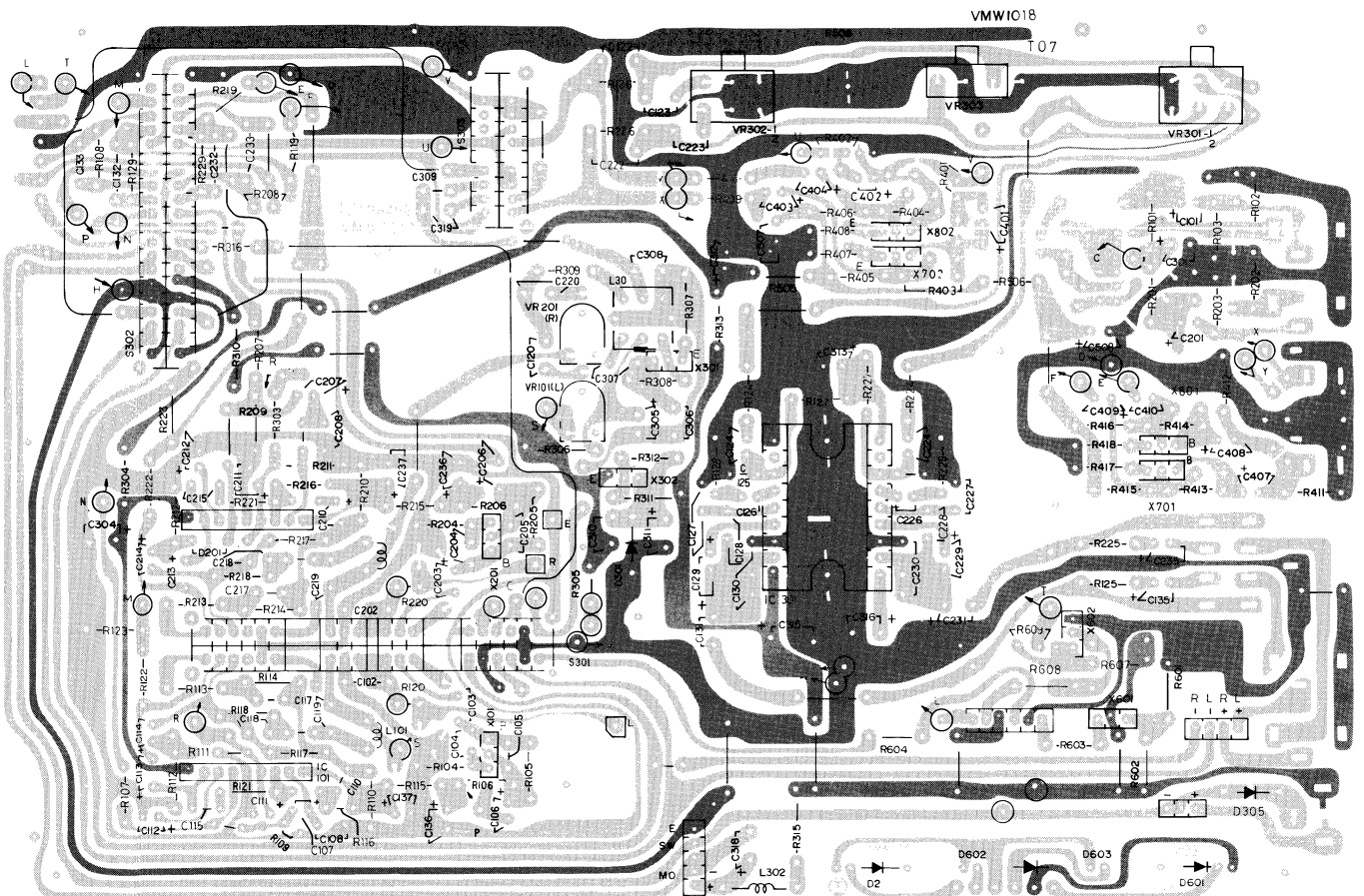
| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|--------------|--------------|-----------------|--------------------|------|
| X1, 3 | VMW2155-002 | P. W. Board | | 1 |
| X2 | 2SC930(E) | Transistor | | 2 |
| X4 | 2SC1923(O) | " | | 1 |
| X5 | 2SC460(B) | " | | 1 |
| X6, 7 | 2SC1675(L,K) | " | | 1 |
| | 2SC945L(Q,P) | " | | 2 |
| IC1 | HA12413 | I.C. | | 1 |
| IC2 | AN7410 | " | | 1 |
| D1 | MA345 | Vari. Cap. | | 1 |
| D2 | 1S188FM | Ge. Diode | | 1 |
| D3 | HV80 | Si. Diode | | 1 |
| S1-1 ... 1-8 | QSL8410-001 | Lever Switch | | 1 |
| | V44611-001 | Formed Bus Wire | | 1 |
| | " -002 | " | | 3 |
| | " -005 | " | | 1 |
| | " -006 | " | | 1 |
| CF1, 2 | VBP1M3B-001 | B.P. Filter | | 1 |
| L1 | VCF2L3B-102 | C. Filter | | 2 |
| L2 | V03105-031 | RF Coil | FM | 1 |
| L3 | " -029 | " | " | 1 |
| | VQR1014-301 | " | SW | 1 |
| L4, 5 | VQB012B-307T | Bar Ant. Ass'y | | 1 |
| L6 | VQS1T03-205 | Osc. Coil | SW | 1 |
| L7 | VQM1T03-301 | " | MW | 1 |
| L8 | VQL1T03-301 | " | LW | 1 |
| L9, 10 | VQP0002-393 | Inductor | | 2 |
| L11 | 03226-1K | " | | 1 |
| L12 | V03047-21 | RF Coil | | 1 |
| | VYH4129-001 | Bar Ant. Holder | | 1 |
| T1 | SPSP3006ZS | Screw | | 1 |
| | VQT7F12-104 | IFT | | 1 |
| T2 | VQT7A11-301 | " | | 2 |
| T3 | VQT7F07-501 | " | | 1 |
| T4, 5, CF3 | V03067-026 | " | | 1 |
| | VYH4561-001 | Shield | | 1 |
| | VYH4369-002 | " | | 2 |
| VR1 | QVP8A0B-014 | V. Resistor | 10 k Ω | 1 |
| R1, 15 | QRD141J-332S | C. Resistor | 3.3 k Ω ¼ W | 2 |
| R2, 10 | " -474S | " | 470 k Ω " | 2 |
| R3, 4, 8, 13 | " -101S | " | 100 Ω " | 4 |
| R5 | " -564S | " | 560 k Ω " | 1 |
| R7 | " -122S | " | 1.2 k Ω " | 1 |
| R9 | " -560S | " | 56 Ω " | 1 |
| R11 | " -152S | " | 1.5 k Ω " | 1 |
| R12 | " -331S | " | 330 Ω " | 1 |
| R14 | " -392S | " | 3.9 k Ω " | 1 |
| R16, 45 | " -682S | " | 6.8 k Ω " | 2 |
| R17 | QRD143J-684S | " | 680 k Ω " | 1 |
| R18, 36 | " -102S | " | 1 k Ω " | 2 |
| R19 | QRD141J-182S | " | 1.8 k Ω " | 1 |
| R20, 41 | " -100S | " | 10 Ω " | 2 |
| R21 | " -330S | " | 33 Ω " | 1 |
| R22 | QRD143J-562S | " | 5.6 k Ω " | 1 |
| R23 | " -271S | " | 270 Ω " | 1 |
| R24 | QRD141J-103S | " | 10 k Ω " | 1 |
| R25 | QRD143J-103S | " | 10 k Ω " | 1 |
| R26 | QRD141J-222S | " | 2.2 k Ω " | 1 |
| R27 | " -332S | " | 3.3 k Ω " | 1 |
| R28 | QRD143J-682S | " | 6.8 k Ω " | 1 |
| R29, 30 | QRD141J-104S | " | 100 k Ω " | 2 |
| R31 | " -223S | " | 22 k Ω " | 1 |

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|--------------------------------|--------------|-----------------|------------------------------|------|
| R32 | QRD143J-271S | C. Resistor | 270 Ω $\frac{1}{4}$ W | 1 |
| R34 | QRD141J-153S | " | 15 k Ω " | 1 |
| R35, 37 | " -183S | " | 18 k Ω " | 2 |
| R38 | " -102S | " | 1 k Ω " | 1 |
| R42, 46 | " -221S | " | 220 Ω " | 2 |
| R44 | " -273S | " | 27 k Ω " | 1 |
| R48 | " -272S | " | 2.7 k Ω " | 1 |
| R51 | QRD143J-100S | " | 10 Ω " | 1 |
| R52 | " -822S | " | 8.2 k Ω " | 1 |
| R53 | QRD141J-333S | " | 33 k Ω " | 1 |
| R54 | " -474S | " | 470 k Ω " | 1 |
| R56 | " -122S | " | 1.2 k Ω " | 1 |
| R58 | QRD143J-101S | " | 100 Ω " | 1 |
| R59 | " -334S | " | 330 k Ω " | 1 |
| C1, 5 | QCF11HP-472 | C. Capacitor | 0.0047 μ F 50 V | 2 |
| C2 | QCS11HJ-200 | " | 20 pF " | 1 |
| C3, 17 | " -5R0 | " | 5 pF " | 2 |
| C4 | " -150 | " | 15 pF " | 1 |
| C6 | " -331 | " | 330 pF " | 1 |
| C7, 8, 37, 74 | QCF11HP-223 | " | 0.022 μ F " | 4 |
| C9 | QCS11HJ-3R0 | " | 3 pF " | 1 |
| C10, 12 | QCT05CH-8R0 | " | 8 pF " | 2 |
| C11 | " -220 | " | 22 pF " | 1 |
| C13 | " -120 | " | 12 pF " | 1 |
| C14 | QCS11HJ-180 | " | 18 pF " | 1 |
| C15, 32, 33, 49 | QCY41HK-472 | " | 0.0047 μ F " | 4 |
| C16 | QCS11HJ-6R0 | " | 6 pF " | 1 |
| C18, 28 | " -390 | " | 39 pF " | 2 |
| C20 | QFS41HJ-392 | P. Capacitor | 0.0039 μ F " | 1 |
| C21 | QCS11HJ-361 | C. Capacitor | 360 pF " | 1 |
| C22 | QFS21HJ-181 | P. Capacitor | 180 pF " | 1 |
| C23 | QCS11HJ-2R0 | C. Capacitor | 2 pF " | 1 |
| C24 | " -100 | " | 10 pF " | 1 |
| C25 | " -330 | " | 33 pF " | 2 |
| C26 | " -2R0 | " | 2 pF " | 1 |
| C27 | " -120 | " | 12 pF " | 1 |
| C29, 48 | QCC11EM-103 | " | 0.01 μ F 25 V | 2 |
| C30, 34, 54, 71, 78 | " -473 | " | 0.047 μ F " | 5 |
| C31, 39, 43, 75 | " -223 | " | 0.022 μ F " | 4 |
| C40, 42, 46 | QFM41HM-473 | M. Capacitor | 0.047 μ F 50 V | 3 |
| C41 | QET41AR-476 | E. Capacitor | 47 μ F 10 V | 1 |
| C44 | QCS11HJ-121 | C. Capacitor | 120 pF 50 V | 1 |
| C45 | QFM41HM-103 | M. Capacitor | 0.01 μ F " | 1 |
| C47 | QET41CR-227 | E. Capacitor | 220 μ F 16 V | 1 |
| C50 | QEC41HM-104 | " | 0.1 μ F 50 V | 1 |
| C51 | QET41HR-335 | " | 3.3 μ F " | 1 |
| C52 | QEN41HA-105N | " | 1 μ F " | 1 |
| C53 | QFS21HJ-471 | P. Capacitor | 470 pF " | 1 |
| C55 | QEC41HM-474 | E. Capacitor | 0.47 μ F " | 1 |
| C56 | " -224 | " | 0.22 μ F " | 1 |
| C57, 64, 65 | QET41HR-474 | " | 0.47 μ F " | 3 |
| C58, 59 | QFM41HK-183 | M. Capacitor | 0.018 μ F " | 2 |
| C60, 61, 73 | QCY41HK-182 | C. Capacitor | 0.0018 μ F " | 3 |
| C66 | QCS11HJ-240 | " | 24 pF " | 1 |
| C67 | QET41AR-107 | E. Capacitor | 100 μ F 10 V | 1 |
| C68 | QET41HR-105 | " | 1 μ F 50 V | 1 |
| C69 | QET41CR-226 | " | 22 μ F 16 V | 1 |
| C70, 79 | QCS11HJ-151 | C. Capacitor | 150 pF 50 V | 2 |
| C72 | QFM41HM-223 | M. Capacitor | 0.022 μ F " | 1 |
| C77 | QCY41HK-272 | C. Capacitor | 0.0027 μ F " | 1 |
| C80 | QCS11HJ-271 | " | 270 pF " | 1 |
| C99 | " -471 | " | 470 pF " | 1 |
| VC1-1, 1-2, VC2-1, 2-2, TC4, 7 | QAP1224-515 | V. Capacitor | | 1 |
| VC3 | QAT5001-203 | M.V. Capacitor | | 1 |
| TC3, 5, TC6, 8 | QAT2002-001 | T. Capacitor | | 2 |
| CN1-P | QMV5005-007 | Connector | | 1 |
| | V44611-001 | Formed Bus Wire | | 2 |
| | " -002 | " | | 4 |
| | " -003 | " | | 4 |
| | " -005 | " | | 4 |
| | " -006 | " | | 2 |
| | VKL3143-001 | Board in Tab | | 8 |

Power Supply P.W. Board Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|------------------------------------|--------------|-------------------|--------------------|------|
| D901, 902 | VMW3109-002 | P.W. Board | | 1 |
| D903, 904 | DS131A | Si. Diode | | 1 |
| C901, 902, 903, 904 | DS132A | " | | 1 |
| S901, J901 | QCC11EM-223 | C. Capacitor | 0.022 μ F 25 V | 4 |
| S902-1... 2 | QMC0263-002 | AC Jack | | 1 |
| T901 | QSS2325-101 | Slide Switch | | 1 |
| C905 | VTP48N2-90F | Power Transformer | | 1 |
| | QET41CR-476 | E. Capacitor | 47 μ F 16 V | 1 |
| | QMF51A2-1R0 | Fuse | | 1 |
| | VYH4598-001 | Shield | | 1 |
| | A44594-001 | Fuse Clip | | 2 |
| Other P.W. Board Parts List | | | | |
| (LED) | | | | |
| D2, 601, 602 | VMW3141-001C | P.W. Board | | 1 |
| | LN217RP | LED | | 3 |
| (MIC) | | | | |
| | VMW3110-002 | P.W. Board | Mic. Wires | 1 |

Amplifier P.W. Board Parts



Amplifier P.W. Board Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|---|---------------|-----------------|-------------------------|------|
| | VMW1018-203A | P.W. Board | Amp. | 1 |
| | V44611-001 | Formed Bus Wire | | 8 |
| | " -002 | " | | 12 |
| | " -005 | " | | 5 |
| | " -006 | " | | 2 |
| S303-1 ... 12 | QSSC201-106 | Slide Switch | Record, Play | 1 |
| S302-1 ... 8 | QSL8310-102 | Lever Switch | T-R-L | 1 |
| S303-1 ... 4 | QSL4310-014 | " | Stereo-Mono. | 1 |
| X101, 201, 701, 801 | 2SD661(S) | Transistor | or 2SD661(T) | 4 |
| X301, 302, 601, 602, 702, 802 | 2SD636(R) | " | | 6 |
| D101, 201 | MA150 | Si. Diode | | 2 |
| D301 | HZ6B | Zener Diode | | 1 |
| IC101, 201 | BA333(V) | I.C. | | 2 |
| IC301 | AN7146(H) | " | | 1 |
| | VYH4295-002 | Radiation | | 1 |
| | VYH4334-001 | E. Plate | | 1 |
| | LPSP3012ZS | Screw | | 2 |
| VR101, 201 | QVP8A0B-054 | V. Resistor | Bias Adj. 50 k Ω | 2 |
| VR301-1, 2 | QVD8A2A-024VM | " | Volume 20 k Ω | 1 |
| VR302-1, 2 | QVD7A2A-024VM | " | Tone 20 k Ω | 1 |
| VR501 | QVG4A2W-A54VM | " | Balance 50 k Ω | 1 |
| L101, 201 | VQP0002-103 | Inductor | Bias Trap | 2 |
| L301 | V03083-020 | Osc. Coil | Bias Osc. | 1 |
| L302 | T41572-001 | Inductor | Motor | 1 |
| C101, 201, 106, 206, 107, 207, 114, 214, 401, 402, 403, 404, 407, 408, 409, 410 | QET41HR-474 | E. Capacitor | 0.47 F 50 V | 16 |
| C102, 202 | QCS11HJ-681 | C. Capacitor | 680 pF " | 2 |
| C103, 203 | QEB41EM-105 | E. Capacitor | 1 μ F 25 V | 2 |
| C104, 204 | QCF11EZ-102 | C. Capacitor | 0.001 μ F " | 2 |
| C105, 205 | QCS11HJ-330 | " | 33 pF 50 V | 2 |
| C108, 208, 127, 227 | QCY41HK-681 | " | 680 pF " | 4 |
| C110, 210, 137, 237, 301, 507 | QET41AR-107 | E. Capacitor | 100 μ F 10 V | 6 |
| C111, 211, 113, 213 | QET41ER-475 | " | 4.7 μ F 25 V | 4 |
| C112, 212, 126, 226, 136, 236 | QET41AR-476 | " | 47 μ F 10 V | 6 |
| C115, 215, 120, 220 | QCS11HJ-331 | C. Capacitor | 330 pF 50 V | 4 |
| C117, 217 | QFM41HK-183 | M. Capacitor | 0.018 μ F " | 2 |
| C118, 218 | QFM41HJ-182 | " | 0.0018 μ F " | 2 |
| C119, 219 | QCS11HJ-471 | C. Capacitor | 470 pF " | 2 |
| C122, 222 | QCY41HK-472 | " | 0.0047 μ F " | 2 |
| C123, 223 | QFM41HK-333 | M. Capacitor | 0.033 μ F " | 2 |
| C124, 224 | QET41HR-105 | E. Capacitor | 1 μ F " | 2 |
| C125, 225 | QCY41HK-222 | C. Capacitor | 0.0022 μ F " | 2 |
| C128, 228 | QCS11HJ-301 | " | 300 pF " | 2 |
| C129, 229 | QET41AR-336 | E. Capacitor | 33 μ F 10 V | 2 |
| C130, 230 | QFM42AK-224 | M. Capacitor | 0.22 μ F 100 V | 2 |
| C131, 231 | QET41AR-108 | E. Capacitor | 1000 μ F 10 V | 2 |
| C132, 232 | QCS11HJ-301 | C. Capacitor | 300 pF 50 V | 2 |
| C133, 233 | " -241 | " | 240 pF " | 2 |
| C135, 235 | QET41HR-335 | E. Capacitor | 3.3 μ F " | 2 |
| C304 | QET41AR-477 | " | 470 μ F 10 V | 1 |
| C305, 313 | " -227 | " | 220 μ F " | 2 |
| C306, 310 | QFM41HK-223 | M. Capacitor | 0.022 μ F 50 V | 2 |
| C307 | " -392 | " | 0.0039 μ F " | 1 |
| C308 | QCY41HK-821 | C. Capacitor | 820 pF " | 1 |
| C309 | QCS11HJ-820 | " | 82 pF " | 1 |
| C311 | QET41AR-337 | E. Capacitor | 330 μ F 10 V | 1 |
| C312 | QET41CR-477 | " | 470 μ F 16 V | 1 |
| C315 | " -228 | " | 2200 μ F " | 1 |
| C316, 508 | " -476 | " | 47 μ F " | 2 |
| C318 | " -108 | " | 1000 μ F " | 1 |
| C319 | QCS11HJ-251 | C. Capacitor | 250 pF " | 1 |

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|--------------------------|--------------|-----------------|--------------------|------|
| R101, 201, 316, 505, 506 | QRD141J-222S | C. Resistor | 2.2 k Ω ¼ W | 5 |
| R102, 202, 124, 224, 601 | " -102S | " | 1 k Ω " | 5 |
| R103, 203 | " -471S | " | 470 Ω " | 2 |
| R104, 204 | " -271S | " | 270 Ω " | 2 |
| R105, 205 | " -225S | " | 2.2 M Ω " | 2 |
| R106, 206 | " -682S | " | 6.8 k Ω " | 2 |
| R107, 207 | " -272S | " | 2.7 k Ω " | 2 |
| R109 | QRD143J-333S | " | 33 k Ω " | 1 |
| R110, 210, 407, 408 | QRD141J-101S | " | 100 Ω " | 4 |
| R111, 211 | QRD121J-106 | " | 10 M Ω ½ W | 2 |
| R112, 212 | QRD141J-393S | " | 39 k Ω ¼ W | 2 |
| R113, 213, 123, 223, 309 | " -822S | " | 8.2 k Ω " | 5 |
| R114, 214 | " -124S | " | 120 k Ω " | 2 |
| R115, 215 | " -332S | " | 3.3 k Ω " | 2 |
| R116 | QRD143J-474S | " | 470 k Ω " | 1 |
| R117, 217 | QRD141J-153S | " | 15 k Ω " | 2 |
| R118, 218 | " -223S | " | 22 k Ω " | 2 |
| R119, 219 | " -273S | " | 27 k Ω " | 2 |
| R120, 220 | QRD143J-100S | " | 10 Ω " | 2 |
| R121, 221, 409, 410 | QRD141J-472S | " | 4.7 k Ω " | 4 |
| R122, 222 | " -683S | " | 68 k Ω " | 2 |
| R125, 225, 417, 418, 603 | " -101S | " | 100 Ω " | 5 |
| R126, 226 | " -103S | " | 10 k Ω " | 2 |
| R127, 227 | " -473S | " | 47 k Ω " | 2 |
| R128, 228 | " -121S | " | 120 Ω " | 2 |
| R129, 229, 108 | " -104S | " | 100 k Ω " | 3 |
| R208 | QRD143J-104S | " | 100 k Ω " | 1 |
| R209, 308 | QRD141J-333S | " | 3.3 k Ω " | 2 |
| R303 | " -564S | " | 560 k Ω " | 1 |
| R304, 313 | " -151S | " | 150 Ω " | 2 |
| R305 | QRD143J-121S | " | 120 Ω " | 1 |
| R306 | QRD146K-101 | " | 100 Ω " | 1 |
| R307 | " -150 | " | 15 Ω " | 1 |
| R310 | " -4R7 | " | 4.7 Ω " | 1 |
| R311 | " -100 | " | 10 Ω " | 1 |
| R312 | QRD141J-331S | " | 330 Ω " | 1 |
| R315 | QRD121J-1R0 | " | 1 Ω ½ W | 1 |
| R401, 402 | QRD143J-473S | " | 47 k Ω ¼ W | 2 |
| R403, 404 | QRD121J-125S | " | 1.2 M Ω ½ W | 2 |
| R405, 406 | QRD141J-682S | " | 6.8 k Ω ¼ W | 2 |
| R411, 412 | " -103S | " | 10 k Ω " | 2 |
| R413, 414, 216 | " -474S | " | 470 k Ω " | 3 |
| R415, 416 | " -123S | " | 12 k Ω " | 2 |
| R419, 420 | " -105S | " | 1 M Ω " | 2 |
| R608 | " -471S | " | 470 Ω " | 1 |
| R609 | QRD143J-123S | " | 12 k Ω " | 1 |
| J101, 201, 102, 202 | QMS3501-014 | Jack Ass'y | | 4 |
| J301 | QMA0921-005 | Ext. Batt. Jack | | 1 |
| J302 | QMS6312-004 | Headphone Jack | | 1 |
| J501 | QMC9014-006 | DIN Socket | | 1 |
| CN302-P | VKL3143-001 | Board in Tab | Speaker | 3 |
| | QMV5005-004 | Connector | | 1 |
| | V44691-001 | Wire Clamp | | 4 |
| CN303-P | QMV5005-003 | Connector | Power | 1 |
| CN304-P | " -005 | " | Mecha. | 1 |
| CN305-P | " -006 | " | LED | 1 |

Clock Circuit Parts

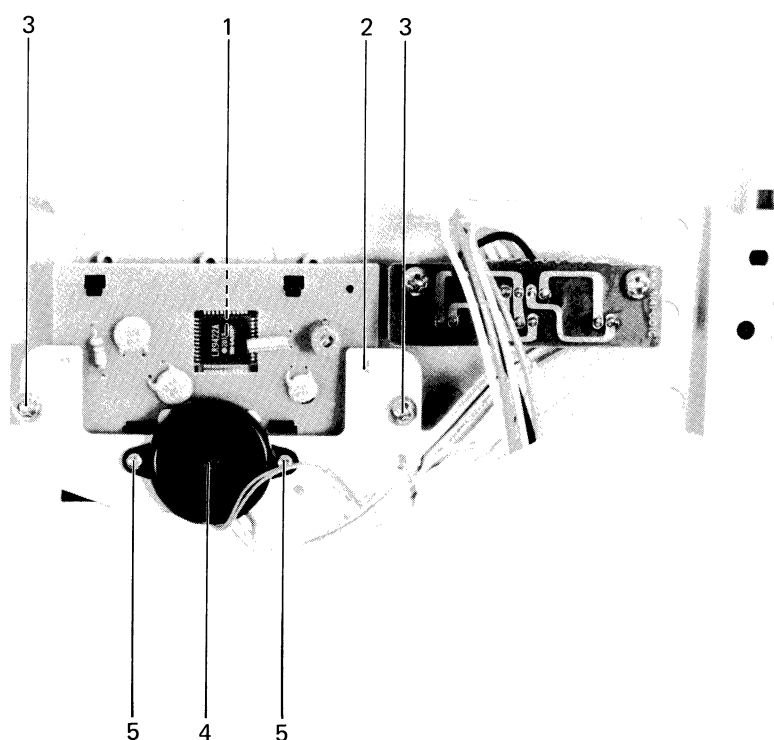


Fig. 39

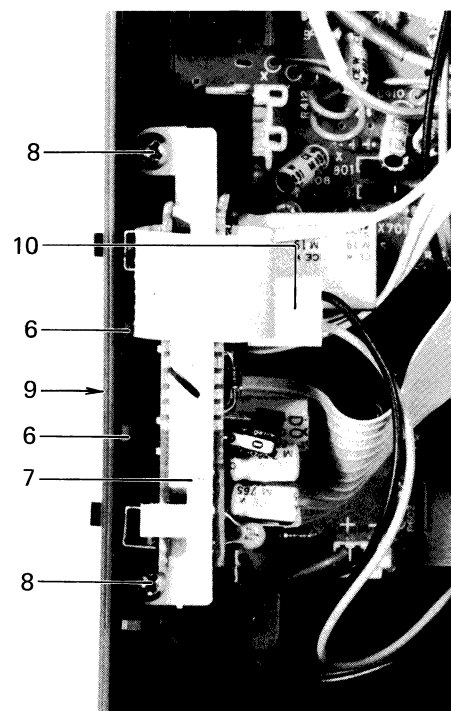


Fig. 40

Clock Relation Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|-------------|----------------------|------------|------|
| 1 | LX-3419V | Clock | | 1 |
| 2 | VYH4752-001 | Clock Holder | | 1 |
| 3 | SBSF3008Z | Tap. Screw | | 2 |
| 4 | EFB-RC24C09 | Piezoelectric Buzzer | | 1 |
| 5 | SPSP2006Z | Tap. Screw | | 2 |
| 6 | VXP4134-001 | Push Knob | | 2 |
| 7 | VYH2129-001 | Board Holder | | 1 |
| 8 | SBSF3012Z | Tap. Screw | | 2 |
| 9 | VJD4501-001 | Plate | | 1 |
| 10 | | Connector | CN652 | 1 |
| | VYTS406-001 | Spacer | for P.W.B. | 1 |
| | VYSA1R6-009 | " | for Switch | 1 |

Clock P.W. Board Parts

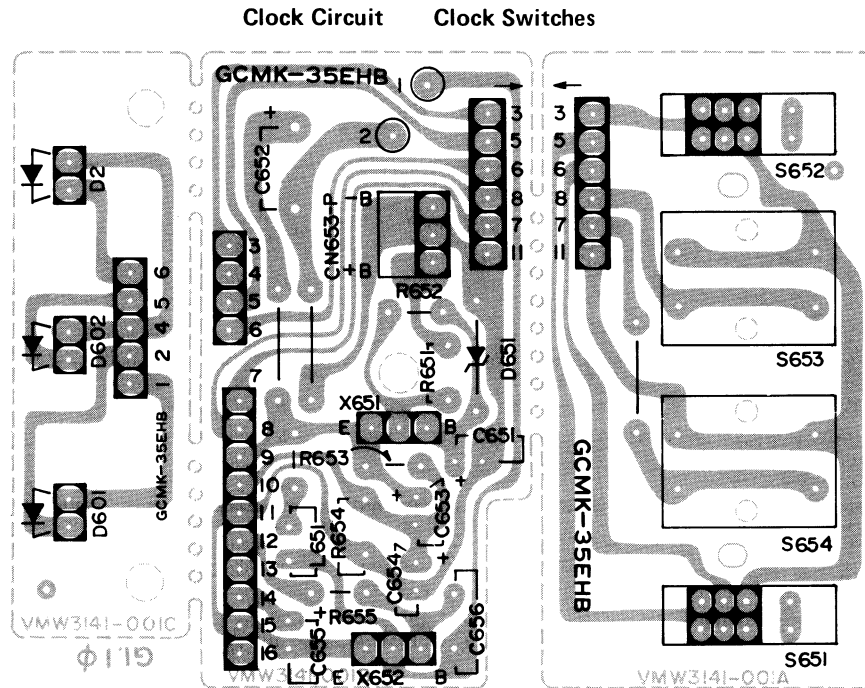


Fig. 41

Switch P.W.B. Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|---------------------------|--------------|-----------------|---------|------|
| S653, 654 S652 S651 | VMW3141-002A | P.W. Board | | 1 |
| | V44611-002 | Formed Bus Wire | | 1 |
| | QSP0022-004 | Push Switch | | 2 |
| | | Slide Switch | | 1 |
| | | " | | 1 |

Clock Circuit P.W.B. Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|---|---------------|-----------------|--------------------|------|
| X651, 652 D651 R651 R652 | VMW3141-002B | P.W. Board | | 1 |
| | 2SC536(F) | Transistor | | 2 |
| | HZ3C3 | Zener Diode | | 1 |
| | QRD187J-221A | C. Resistor | 220 Ω 1/8 W | 1 |
| | " -561A | " | 560 Ω " | 1 |
| R653, 654 R655 R656 L651 C651 C652 | " -334A | " | 330 k Ω " | 2 |
| | " -332A | " | 3.3 k Ω " | 1 |
| | QRD143J-221S | " | 220 Ω 1/4 W | 1 |
| | VQP0001-103 | Inductor | | 1 |
| | QEK41EM-475 | E. Capacitor | 4.7 μ F 25 V | 1 |
| C653, 654 C655 C656 C657-660 | QET41AR-228 | " | 2200 μ F 10 V | 1 |
| | " -107 | " | 100 μ F " | 2 |
| | QET41HR-105 | " | 1 μ F 50 V | 1 |
| | QCF11EZ-102 | C. Capacitor | 0.001 μ F " | 1 |
| | QCC11EM-223 | " | 0.022 μ F 25 V | 4 |
| CN653-P | VWP406-05A2A2 | P.C. Joiner | | 1 |
| | V44611-002 | Formed Bus Wire | | 2 |
| | QMV5005-003 | Connector | | 1 |

Packing

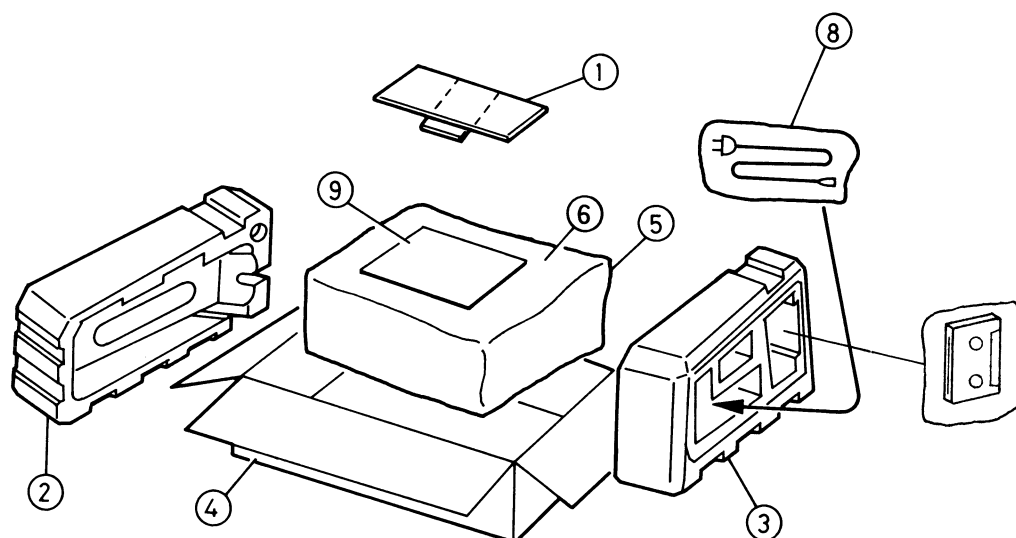


Fig. 42

Packing Material Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|---------------|----------------|----------------------|------|
| 1 | VPH4101-003 | Door Protector | | 1 |
| 2 | VPH1204-002 | Side Cushion | Left | 1 |
| 3 | VPH1198-001 | " | Right | 1 |
| 4 | VPD5062- | Carton | | 1 |
| 5 | QPGA060-05005 | Poly Bag | | 1 |
| 6 | VHPJ079-036 | Paper Sheet | | 1 |
| 8 | QPGA012-01505 | Poly Bag | for PX EES | 2 |
| 9 | QPGB024-03404 | " | for Instruction Book | 1 |

Accessories

| Parts No. | Parts Name | Remarks | Q'ty |
|-------------|---------------------|---------|------|
| VGT12S2-J05 | Cassette Tape | | 1 |
| QMP3950-183 | Power Cord | | 1 |
| VYA4001-00A | Head Cleaning Stick | | 1 |
| VNC6305-001 | Trouble Shooting | | 1 |
| VNM0818-301 | Instruction Book | | 1 |
| 53866-2 | Label | | 1 |

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